

UNITED STATES NAVAL OBSERVATORY

CIRCULAR NO. 145

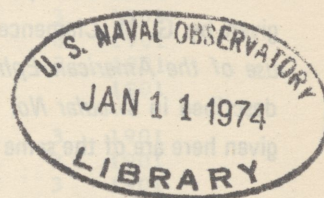
U. S. Naval Observatory, Washington, D. C. 20390

November 1, 1973

NORMALIZED OBSERVATIONS OF MERCURY 1901-1937

by

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CIRCULAR NO. 145

EXPLANATION

The comparison of planetary theories with observations, formerly a tedious manual task, is now facilitated by the use of electronic computers. The collection and systematic discussion of the observations, however, remains a project which becomes unwieldy as the volume of numbers increases and grows more difficult with the remoteness of the observational epoch. An alternate approach is to make use of the observation residuals resulting from some previous investigation. Further modification of these observation residuals, however, to correct from one catalog system to another, or from one theory to another, is difficult to perform rigorously. Therefore, it is most advantageous to have the data presented in the form of an observed right ascension and declination systematically referred to the same star catalog system.

This *Circular* presents the observations of Mercury reconstructed from the conditional equations given by G. M. Clemence in his study of the motion of Mercury (*Astronomical Papers prepared for the use of the American Ephemeris and Nautical Almanac*, volume XI, part 1). Details of the method are described in *Circular No. 134* of this series, in connection with the observations of Venus. The tabulations given here are of the same character as those in *Circular No. 134* with the exception of the date.

In the following table, the Julian Date is to be taken as the exact instant of observation. However, the adjustment involving the fluctuation in the Moon's mean longitude, applied by Clemence, has been removed. Consequently, the tabular date is in Universal Time, not Ephemeris Time. The observation residuals, their weights, and the year of observation have been listed for convenience.

The reference system of these observations is essentially the system of the FK3 in both coordinates. Details of reduction and adjustment are contained in Clemence's investigation, together with an indication of the original source of the observations.

OBSERVATIONS OF MERCURY 1901-1937

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DATE	R. A.			O-C	WT.	DEC.			O-C	WT.	YEAR
	H	M	S	"		°	'	"	"		
2415389	18	13	23.00	-0.5	1	-24	20	52.0	-0.2	1	1901
2415393	18	40	47.94	0.4	1	-24	25	41.9	0.6	1	1901
2415399						-23	51	27.8	-0.4	2	1901
2415400	19	29	43.61	-0.4	1						1901
2415418	21	36	49.28	0.8	2	-16	6	48.7	-0.1	2	1901
2415422	22	3	59.27	0.7	3	-13	21	37.1	-0.8	3	1901
2415429	22	47	20.72	0.2	2	-7	59	12.4	0.1	2	1901
2415432	23	2	45.83	-1.2	1	-5	41	47.9	-0.1	1	1901
2415436	23	18	16.65	-1.1	2	-2	59	54.6	-0.8	2	1901
2415464	22	37	32.99	0.1	2	-7	30	42.2	1.1	2	1901
2415473						-8	11	18.7	0.3	1	1901
2415475	22	57	57.11	0.3	2						1901
2415486	23	43	0.11	0.0	3	-4	30	9.5	-0.7	3	1901
2415493	0	19	6.52	1.0	4	-0	48	37.4	0.2	4	1901
2415496	0	36	2.36	0.5	3	1	3	50.0	0.7	4	1901
2415496	0	36	2.34	-0.1	3						1901
2415501	1	6	15.37	-0.3	6	4	31	7.5	-0.8	6	1901
2415505	1	32	25.03	-0.4	2	7	31	55.5	-0.1	2	1901
2415509	2	0	36.29	-0.6	2	10	42	6.8	-0.7	2	1901
2415527	4	32	36.59	-0.8	4	23	21	44.0	0.0	4	1901
2415534	5	32	51.57	-3.1	1	25	22	14.2	-0.9	1	1901
2415541	6	24	53.43	-2.6	2	25	25	21.6	0.7	2	1901
2415546	6	55	25.28	-3.0	4	24	34	35.8	0.6	4	1901
2415554	7	31	12.86	-1.2	1	22	20	5.5	1.4	1	1901
2415559	7	44	31.98	-1.7	2	20	43	13.5	0.1	2	1901
2415563	7	49	39.20	-1.3	4	19	29	10.0	0.0	4	1901
2415598	7	22	17.81	0.3	1	20	3	7.4	-0.3	3	1901
2415606	8	4	7.20	-0.5	8	20	20	43.0	0.1	8	1901
2415611	8	40	26.90	-0.2	2	19	17	44.5	0.3	2	1901
2415616	9	20	15.07	-1.4	4						1901
2415617						16	36	23.8	0.1	3	1901
2415618						16	1	39.5	0.4	3	1901
2415633	11	25	12.62	0.3	2	5	6	39.0	0.6	3	1901
2415636	11	44	13.49	0.7	3	2	45	47.5	-0.1	3	1901
2415641	12	14	17.63	0.2	1	-1	5	9.0	0.0	1	1901
2415646	12	42	42.18	-0.9	1						1901
2415648						-6	12	40.8	0.2	2	1901
2415653	13	20	16.27	1.0	4	-9	36	15.8	0.0	4	1901
2415656	13	35	39.99	1.1	3	-11	30	27.2	-0.8	3	1901
2415660	13	55	29.87	-0.4	3	-13	51	51.3	-1.0	3	1901
2415665	14	18	53.71	-0.2	3	-16	28	6.5	-0.8	3	1901
2415670	14	39	57.54	-1.6	1	-18	36	10.3	0.3	1	1901
2415674	14	54	4.22	-0.9	2						1901
2415675						-20	7	15.4	-0.4	3	1901
2415678						-20	38	23.6	-0.2	2	1901
2415679	15	5	57.36	-0.6	3						1901
2415684	15	7	35.74	-0.5	2	-20	25	7.4	-1.0	2	1901
2415705	14	14	18.46	0.2	1	-11	0	33.9	1.0	1	1901
2415711	14	33	20.25	1.4	3	-12	37	17.1	0.2	4	1901
2415715	14	52	9.55	-0.4	2	-14	22	48.8	0.9	2	1901
2415721	15	25	9.44	0.7	2	-17	16	12.9	0.4	2	1901
2415725	15	49	3.49	1.1	3	-19	7	1.6	0.7	1	1901
2415729	16	13	58.77	1.5	3	-20	47	15.0	-0.3	3	1901
2415743	17	46	52.60	-1.2	1	-24	31	49.8	0.1	1	1901
2415764	20	15	30.07	-0.1	2	-21	57	6.7	-0.7	2	1902

OBSERVATIONS OF MERCURY 1901-1937

DATE	R. A.			O-C	WT.	DEC.			O-C	WT.	YEAR
	H	M	S	"		°	'	"	"		
2415769	20	50	23.88	0.2	2	-19	40	33.1	0.6	2	1902
2415779	21	53	4.12	-0.8	3	-13	33	19.1	-0.3	3	1902
2415785	22	18	38.40	-0.8	2	-9	45	23.9	1.2	2	1902
2415788	22	24	54.56	-1.3	2	-8	16	44.2	1.0	2	1902
2415792	22	24	27.31	0.7	2	-7	9	54.4	0.3	1	1902
2415813	21	29	32.99	0.3	2	-13	7	41.2	-1.2	2	1902
2415815	21	31	30.83	1.1	2	-13	26	55.8	-0.3	2	1902
2415821	21	45	15.87	-0.9	2	-13	37	43.1	0.3	2	1902
2415823	21	51	54.04	-0.2	2	-13	26	41.4	0.0	2	1902
2415830	22	20	37.78	1.1	1	-11	56	34.8	-1.1	1	1902
2415834	22	39	51.41	-1.1	2	-10	32	7.9	-0.2	2	1902
2415858	1	2	34.01	1.8	2	4	44	2.5	0.8	2	1902
2415864	1	46	16.71	-0.5	2	9	53	39.8	1.0	2	1902
2415871	2	42	21.32	1.0	1	15	55	30.7	-1.4	1	1902
2415877	3	33	3.92	-1.1	3	20	23	21.8	-0.5	4	1902
2415880	3	58	8.54	-4.2	1	22	9	21.4	0.0	1	1902
2415884	4	30	5.69	-0.2	1	23	55	35.1	-0.9	1	1902
2415892	5	25	13.49	-0.3	3	25	31	38.7	-0.7	3	1902
2415898	5	56	23.24	-1.0	3	25	21	14.1	-1.6	2	1902
2415904	6	17	7.07	-1.3	3	24	22	45.7	-1.1	3	1902
2415909	6	25	32.10	-1.3	2	23	11	13.1	-0.6	2	1902
2415938	5	48	59.07	0.8	2	19	11	26.4	1.6	2	1902
2415941	5	52	58.49	-0.3	2	19	40	35.3	0.9	2	1902
2415948	6	15	17.46	-1.0	3	21	6	11.2	0.1	3	1902
2415954	6	48	30.63	-0.7	2	22	4	57.3	0.7	2	1902
2415957	7	9	29.97	2.8	1						1902
2415958						22	15	8.5	0.1	2	1902
2415961	7	41	0.79	2.8	1	21	59	26.1	-0.5	1	1902
2415968	8	40	55.02	-1.4	3	19	51	55.9	0.6	3	1902
2415980	10	16	37.26	-0.8	1	12	26	33.4	0.5	1	1902
2415986						7	57	8.6	-0.9	2	1902
2415987	11	3	46.48	-0.8	3						1902
2415990	11	22	15.45	0.0	3	4	54	38.1	1.1	3	1902
2416000	12	17	58.36	-0.5	3	-2	27	23.2	1.1	3	1902
2416005	12	42	56.35	0.2	2	-5	51	56.0	-0.3	2	1902
2416009	13	1	34.16	-0.5	3	-8	23	48.1	1.0	3	1902
2416014	13	22	55.33	0.3	2	-11	14	48.6	0.5	2	1902
2416022	13	50	35.45	-1.0	1	-14	47	30.3	-0.3	1	1902
2416053	13	12	47.63	-0.1	4						1902
2416054						-5	50	34.9	1.6	3	1902
2416058	13	26	16.70	1.0	4	-6	41	27.8	1.5	4	1902
2416062	13	43	48.09	0.0	2	-8	24	13.5	0.5	2	1902
2416065	13	59	14.39	0.2	3	-9	59	55.3	0.2	3	1902
2416072	14	39	18.03	0.5	4	-14	2	28.9	-0.1	3	1902
2416075	14	57	28.24	-1.9	1	-15	44	28.8	0.9	1	1902
2416083	15	47	44.18	0.0	2	-19	48	41.0	-1.3	2	1902
2416086	16	7	9.84	-0.3	1	-21	6	7.2	1.0	1	1902
2416114	19	20	21.20	0.9	1	-24	21	1.4	-1.4	1	1902
2416126	20	39	56.52	-1.1	2	-19	56	19.9	-1.3	1	1903
2416130	21	1	28.32	0.2	2	-17	51	54.5	0.1	2	1903
2416134						-15	47	22.9	0.0	1	1903
2416135	21	20	2.06	-1.0	2						1903
2416165	20	26	44.18	1.8	1	-17	43	48.7	0.2	1	1903
2416169						-17	52	44.8	0.8	1	1903
2416172	20	48	54.08	-1.4	1						1903

DATE	R. A.			O-C	WT.	DEC.			O-C	WT.	YEAR
	H	M	S	"		°	'	"	"		
2416177	21	10	52.92	-1.0	1	-17	2	8.7	1.8	1	1903
2416188	22	8	52.08	-0.3	2	-13	30	2.6	0.4	2	1903
2416223	2	4	16.78	1.2	2	12	48	43.5	-0.2	2	1903
2416228	2	43	40.38	0.3	2	16	59	41.4	-0.4	2	1903
2416234	3	28	30.11	-1.9	4	20	57	16.8	-0.7	4	1903
2416239	4	1	5.87	-2.7	3	23	8	17.8	-0.5	3	1903
2416243	4	22	46.35	-0.5	4	24	9	35.6	-0.4	4	1903
2416293	4	47	19.48	0.4	2	18	59	31.6	0.0	2	1903
2416298	5	9	12.05	-1.3	4	20	26	21.8	-0.4	4	1903
2416304	5	45	18.30	0.6	7	22	9	58.6	-0.4	7	1903
2416307	6	7	13.58	-0.3	2	22	50	13.7	-0.6	2	1903
2416312	6	48	36.03	0.6	3	23	21	55.9	-0.4	3	1903
2416318	7	42	51.27	-1.7	2	22	38	42.3	0.4	2	1903
2416326	8	53	26.50	0.4	1	19	20	49.5	-0.8	1	1903
2416333						15	0	26.3	1.0	2	1903
2416340	10	34	35.84	0.1	2	10	4	17.2	-0.4	2	1903
2416349	11	25	41.56	-0.9	2	3	35	54.8	0.1	3	1903
2416352	11	40	47.08	-2.3	1	1	30	43.6	-0.7	1	1903
2416358						- 2	25	54.2	0.5	2	1903
2416359	12	12	24.11	-0.6	3						1903
2416361	12	20	26.73	-0.4	2	- 4	14	49.4	-0.6	2	1903
2416364	12	31	33.77	0.3	3	- 5	55	24.3	0.6	3	1903
2416368	12	44	18.04	0.0	1	- 7	53	7.6	-0.4	1	1903
2416373	12	55	51.21	-0.6	3	- 9	44	32.7	-0.2	3	1903
2416379	13	0	32.63	-0.2	1	-10	40	4.5	-0.9	1	1903
2416401	12	12	15.87	0.5	3	- 0	23	29.8	-0.8	3	1903
2416403	12	15	24.50	-0.2	2	- 0	15	23.1	0.0	2	1903
2416407	12	27	54.36	0.0	1						1903
2416408						- 1	20	39.7	1.6	2	1903
2416410						- 2	13	2.4	1.2	2	1903
2416416	13	13	41.90	0.5	3	- 5	40	26.5	0.6	3	1903
2416417	13	19	30.87	0.2	3	- 6	19	9.1	0.4	3	1903
2416423	13	55	32.30	-0.1	2	-10	17	28.6	1.4	2	1903
2416430	14	38	49.44	0.4	2	-14	44	33.9	1.1	2	1903
2416467	18	44	24.85	-1.3	1	-25	18	43.9	0.1	1	1903
2416472	19	17	16.21	0.5	1	-24	24	12.7	-0.8	1	1903
2416479	19	57	12.83	-0.8	1	-22	11	48.1	-0.9	1	1903
2416515	19	22	51.47	0.6	1						1904
2416522	19	49	42.18	1.3	1	-20	41	18.7	0.0	1	1904
2416526	20	9	10.92	-0.7	1	-20	24	24.0	0.2	1	1904
2416534	20	53	13.34	0.5	1						1904
2416545	21	59	53.70	-0.4	2	-14	28	37.5	0.0	2	1904
2416550	22	31	42.97	-0.1	1	-11	37	46.4	2.3	1	1904
2416558	23	24	34.29	0.0	2	- 5	59	29.8	-1.1	2	1904
2416575	1	26	23.54	0.0	3	9	17	52.6	0.5	3	1904
2416586	2	41	9.19	-0.7	3	17	55	32.4	0.5	3	1904
2416591	3	6	46.44	0.4	3	20	18	14.5	0.8	3	1904
2416640	3	29	2.13	0.2	3	15	13	23.3	-0.2	3	1904
2416644	3	45	25.19	-0.5	2	16	35	59.6	0.3	2	1904
2416647	4	0	13.68	0.3	3	17	47	17.8	0.1	3	1904
2416654	4	43	19.34	-0.3	3	20	44	10.8	-0.6	3	1904
2416656	4	57	52.51	-1.1	3	21	32	3.8	-0.2	3	1904
2416666						24	3	55.1	0.8	2	1904
2416676	7	57	5.09	0.6	1	22	30	28.5	1.0	1	1904
2416682	8	47	19.59	0.1	3	19	45	22.9	0.4	3	1904

DATE	R. A.			O-C	WT.	DEC.			O-C	WT.	YEAR
	H	M	S	"		°	'	"	"		
2416689	9	37	57.50	0.2	2	15	34	48.6	0.7	2	1904
2416692	9	57	10.04	-0.3	2	13	37	23.5	0.4	3	1904
2416696	10	20	40.50	-0.4	1						1904
2416697						10	16	48.9	0.2	3	1904
2416705	11	5	30.18	1.1	2	5	1	17.5	0.0	2	1904
2416722	11	56	10.80	0.9	1	- 3	26	20.3	0.0	1	1904
2416755	11	25	10.70	-0.9	2	5	4	49.2	0.3	2	1904
2416760	11	48	36.94	0.7	3	3	13	14.7	0.0	3	1904
2416766	12	23	36.02	1.8	4	- 0	26	3.8	0.3	4	1904
2416768	12	35	55.73	-0.1	5	- 1	49	46.4	-0.6	5	1904
2416772	13	0	52.06	-0.5	3	- 4	43	2.4	-0.2	3	1904
2416801	16	2	33.61	0.3	3	-22	5	18.3	0.5	3	1904
2416806	16	34	57.75	-0.3	1	-23	48	48.2	-2.1	1	1904
2416830	18	59	25.68	0.4	2	-24	27	16.4	-0.8	2	1904
2416837	19	14	24.58	-0.1	2	-22	34	17.2	0.1	2	1904
2416862	18	10	39.46	0.1	3	-21	10	18.5	0.9	3	1905
2416865	18	19	55.23	1.8	2	-21	36	27.2	1.0	2	1905
2416877	19	17	38.29	2.3	1	-22	22	24.3	0.0	1	1905
2416892	20	49	33.55	-0.1	2	-19	33	19.9	0.2	2	1905
2416901	21	48	32.66	1.8	1	-15	29	42.3	-1.6	1	1905
2416923	0	20	24.78	0.1	2	1	40	16.7	1.0	2	1905
2416932	1	20	19.78	-0.9	2	9	48	58.2	-0.6	2	1905
2416935	1	37	16.59	-0.8	2	12	5	30.8	-0.2	2	1905
2416939	1	55	49.85	-2.2	1	14	31	29.4	0.4	1	1905
2416981	1	55	28.76	0.2	1	8	21	10.3	1.6	1	1905
2416986	2	10	9.79	0.4	2	9	29	22.4	-0.6	2	1905
2416989	2	21	26.28	0.3	2	10	30	55.9	-0.8	2	1905
2416994	2	44	3.53	0.2	4	12	40	10.0	-0.7	4	1905
2417000	3	17	28.33	0.1	3	15	45	26.5	-1.5	3	1905
2417003	3	36	51.87	-0.2	2	17	24	18.7	-0.7	2	1905
2417007	4	5	41.50	-0.6	2	19	35	19.1	0.2	2	1905
2417011	4	37	59.48	0.7	3	21	36	14.1	0.0	3	1905
2417016	5	22	45.15	-2.1	1	23	34	48.5	-0.1	1	1905
2417035	8	14	54.96	-0.4	1	21	42	6.7	1.5	1	1905
2417041	8	57	51.55	0.2	3	18	41	42.9	0.6	3	1905
2417047	9	34	14.12	0.1	3	15	14	39.4	-1.1	3	1905
2417056	10	17	16.34	-2.1	1	9	55	30.7	-1.0	1	1905
2417061	10	35	4.41	1.8	1	7	11	57.1	-1.8	1	1905
2417069	10	52	39.98	-0.2	1	3	45	16.1	-2.8	1	1905
2417097	10	8	34.65	-0.3	1						1905
2417102	10	17	28.83	0.2	1	10	43	3.2	1.0	1	1905
2417154	15	30	9.27	1.9	1	-20	32	59.1	-1.2	1	1905
2417161	16	12	57.56	2.8	1	-23	18	15.8	-0.4	1	1905
2417167	16	49	10.81	1.8	1	-24	54	14.6	-1.2	1	1905
2417172	17	17	49.87	1.7	3	-25	37	47.1	0.9	3	1905
2417177	17	42	57.89	1.8	1	-25	45	36.5	-0.6	1	1905
2417187	18	5	4.50	-0.4	2	-24	13	31.5	-1.3	2	1905
2417202	17	0	45.14	1.4	1	-19	44	1.8	4.1	1	1905
2417206	16	56	14.50	0.2	2	-19	40	45.3	1.2	2	1905
2417210	17	1	49.12	-0.7	1	-20	12	4.0	1.4	1	1905
2417217	17	27	13.25	-0.3	1	-21	38	51.4	0.2	1	1906
2417221	17	47	4.48	0.8	1	-22	25	35.9	0.8	1	1906
2417229	18	33	3.39	2.2	2	-23	21	43.3	0.8	2	1906
2417240	19	43	31.21	-0.4	1	-22	41	4.5	-0.2	1	1906
2417276	23	49	46.68	-0.3	3	- 1	26	42.1	0.1	3	1906

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DATE	R. A.			O-C	WT.	DEC.			O-C	WT.	YEAR
	H	M	S	"		°	'	"	"		
2417282						3	49	52.8	0.2	1	1906
2417287						7	29	21.0	-1.1	1	1906
2417292	1	3	18.04	0.5	3	9	53	11.7	0.7	3	1906
2417319	0	28	57.67	1.0	1	2	17	55.0	1.3	1	1906
2417329	0	45	14.08	-0.3	3	2	6	39.9	0.4	3	1906
2417338	1	17	56.59	2.4	1	4	55	34.0	1.2	1	1906
2417354	2	47	11.50	1.8	1	14	5	40.1	-0.6	1	1906
2417363	3	56	26.45	3.6	1	19	56	33.7	0.8	1	1906
2417379	6	24	52.01	1.6	2	25	7	18.4	0.8	2	1906
2417383						24	41	53.1	0.5	2	1906
2417384	7	8	11.56	0.4	1						1906
2417390	7	53	57.58	0.3	3	22	40	22.0	1.0	3	1906
2417391						22	17	2.3	0.7	1	1906
2417392	8	7	35.63	0.7	2						1906
2417398	8	43	36.40	0.1	2	19	8	11.3	0.6	2	1906
2417401	8	58	52.33	-1.0	1						1906
2417402						17	9	10.7	-1.1	2	1906
2417410	9	33	18.73	-1.4	3	13	15	51.3	1.6	3	1906
2417419	9	48	9.98	-0.2	2	9	55	11.6	1.2	2	1906
2417445	9	2	13.22	0.9	1	14	21	8.3	-1.4	1	1906
2417455	9	31	12.66	0.9	6	15	3	4.0	0.2	6	1906
2417459	9	54	30.57	0.9	3	13	53	30.3	1.2	3	1906
2417462						12	30	5.3	-1.0	1	1906
2417465	10	35	21.39	-1.2	2	10	44	51.0	0.3	2	1906
2417493	13	36	32.24	1.0	2	-10	11	32.2	0.7	2	1906
2417496	13	54	2.23	0.9	3	-12	12	13.5	0.3	3	1906
2417499	14	11	23.65	2.2	2	-14	6	38.2	0.3	2	1906
2417528	16	43	19.35	0.9	3	-24	56	21.3	0.8	2	1906
2417560	15	59	54.34	2.8	1	-18	0	48.6	1.2	1	1906
2417586	18	22	42.94	-0.5	1	-24	3	52.3	0.7	1	1907
2417591	18	56	21.52	0.2	3	-24	2	27.2	-0.4	3	1907
2417594						-23	45	32.1	-0.9	1	1907
2417595	19	23	48.04	0.3	2						1907
2417599	19	51	34.32	-0.2	2	-22	49	8.5	-0.3	2	1907
2417635	23	46	1.65	1.4	2	-0	8	41.6	0.4	2	1907
2417639	23	58	7.20	0.0	2	2	12	3.0	-0.4	1	1907
2417641						3	0	37.9	-1.1	2	1907
2417648						3	27	59.2	0.3	6	1907
2417654						1	11	36.1	0.3	5	1907
2417658						-0	53	17.0	0.2	4	1907
2417663	23	18	30.95	1.2	1	-3	8	33.5	-1.3	1	1907
2417677	23	37	59.01	0.5	4	-4	17	45.0	-0.3	4	1907
2417686	0	13	2.30	-0.1	1						1907
2417688						-0	32	52.5	-0.4	1	1907
2417691	0	37	11.66	-0.2	4	0	59	16.2	-0.2	4	1907
2417700	1	27	53.91	-0.4	3	6	35	32.8	0.5	3	1907
2417703						8	43	27.1	0.3	4	1907
2417704	1	53	36.63	-0.3	3						1907
2417708	2	21	35.12	0.4	3	12	27	30.0	-0.5	3	1907
2417711	2	44	12.24	0.6	3	14	44	34.2	1.1	3	1907
2417716	3	25	9.84	-0.2	2	18	26	3.6	1.0	2	1907
2417732	5	49	48.72	-0.4	1						1907
2417740	6	52	54.01	0.6	6						1907
2417746	7	31	24.31	0.0	5						1907
2417750	7	52	29.35	0.5	4						1907

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	H	M	S	"		°	'	"	"		
2417758	8	22	49.74	-1.1	2	18	55	49.2	0.5	2	1907
2417761	8	29	47.79	0.3	2	17	49	16.6	0.1	2	1907
2417765	8	34	57.93	-0.9	2	16	29	59.6	-0.3	2	1907
2417802	8	15	26.21	0.5	2	18	56	51.1	0.0	2	1907
2417807	8	43	46.11	-0.3	3	18	29	45.8	1.3	3	1907
2417809	8	57	17.16	0.7	3	17	59	58.6	-0.4	3	1907
2417813	9	26	36.68	-1.7	2	16	27	16.9	1.5	2	1907
2417816	9	49	33.61	0.9	2	14	51	31.3	-0.4	2	1907
2417833	11	50	19.29	-0.1	2	2	19	18.0	0.8	2	1907
2417841	12	39	2.07	0.2	2	-3	50	55.7	-0.1	2	1907
2417844	12	56	21.60	0.3	2	-6	3	20.0	0.4	4	1907
2417851	13	35	21.47	-0.2	2	-10	52	56.6	-0.5	2	1907
2417856	14	2	12.35	1.3	4	-13	59	47.0	-0.8	4	1907
2417859	14	17	54.68	1.1	5	-15	42	26.0	0.0	5	1907
2417865	14	48	6.48	0.6	3	-18	42	46.8	-0.4	3	1907
2417869	15	6	50.01	-0.2	2	-20	21	11.9	-0.9	2	1907
2417874	15	27	22.98	0.8	5	-21	53	38.6	0.1	5	1907
2417879	15	42	16.34	0.2	2	-22	42	20.9	0.4	2	1907
2417894	15	14	31.86	1.7	1	-17	49	7.3	-0.9	1	1907
2417902	14	47	38.99	1.7	1	-13	48	18.1	0.6	1	1907
2417906	14	49	57.71	1.3	3	-13	41	7.6	1.0	3	1907
2417911	15	4	41.79	1.0	2	-14	54	19.2	0.4	2	1907
2417915	15	22	24.79	0.1	5	-16	26	10.0	-0.3	5	1907
2417918	15	37	49.87	0.7	2						1907
2417919						-18	7	9.5	-0.3	3	1907
2417922	16	0	16.46	3.7	1	-19	21	54.3	-0.3	1	1907
2417926	16	24	13.61	0.2	1	-20	54	24.6	-0.1	1	1907
2417933	17	8	40.88	1.4	1	-23	4	25.9	-1.0	1	1907
2417940	17	55	27.70	-1.0	1	-24	21	27.2	0.3	1	1907
2417944	18	22	58.96	0.9	1	-24	37	55.0	-0.7	1	1908
2417963	20	37	29.34	0.4	1	-20	40	46.5	-0.3	1	1908
2417968	21	12	34.47	2.7	1	-18	6	19.9	1.0	1	1908
2417973	21	46	23.92	0.7	3	-14	56	34.2	-2.0	3	1908
2417978	22	17	27.10	1.5	3	-11	21	33.7	-0.4	3	1908
2417983	22	42	52.98	-0.3	4	-7	44	40.4	-1.2	4	1908
2417986	22	53	40.88	-0.3	2	-5	49	57.7	-1.0	2	1908
2417990	23	0	48.24	0.7	2	-3	57	34.8	-1.0	2	1908
2418014	22	8	52.04	-1.2	3	-10	2	48.0	0.1	3	1908
2418019	22	15	10.74	0.5	2	-10	40	49.2	0.2	2	1908
2418024	22	28	40.48	-2.1	2	-10	25	51.0	0.8	2	1908
2418027	22	39	19.67	0.0	2	-9	54	13.9	-0.7	2	1908
2418034	23	9	27.98	-0.5	2	-7	42	57.1	-0.4	2	1908
2418039	23	34	22.24	-0.2	1	-5	25	53.9	-0.5	1	1908
2418043	23	55	55.53	2.5	1	-3	13	21.0	0.9	1	1908
2418045	0	7	12.60	0.6	3	-2	0	5.6	-0.2	3	1908
2418049	0	30	49.28	0.9	2	0	39	22.2	-1.0	2	1908
2418054	1	2	26.17	0.8	4	4	20	24.2	-0.5	4	1908
2418060	1	43	58.78	-0.7	1	9	10	20.8	0.3	1	1908
2418074	3	38	16.05	1.3	1	20	17	46.8	-0.7	3	1908
2418081	4	39	15.04	-0.8	4	23	57	27.8	0.2	2	1908
2418086	5	19	42.05	-1.1	2	25	17	38.4	0.6	2	1908
2418089						25	36	53.2	1.0	2	1908
2418090	5	48	45.84	0.0	3						1908
2418095	6	20	2.61	-1.2	2	25	22	19.1	1.3	2	1908
2418098	6	35	49.53	-2.5	2	24	54	16.1	-1.2	2	1908

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DATE	R. A.			O-C	WT.	DEC.			O-C	WT.	YEAR
	H	M	S	"		°	'	"	"		
2418102	6	53	5.31	-0.4	3	24	1	50.7	0.1	3	1908
2418105	7	3	0.47	-0.5	2	23	14	46.3	0.8	2	1908
2418109	7	11	55.36	-0.6	3	22	6	40.8	-0.7	3	1908
2418140	6	34	56.27	0.0	3	19	10	48.8	0.7	3	1908
2418145	6	43	6.42	-1.2	2	20	6	43.4	-0.4	2	1908
2418153	7	17	17.02	-1.0	3	21	15	50.6	-0.2	3	1908
2418158	7	50	20.99	0.5	3	21	10	42.1	1.2	3	1908
2418161	8	13	19.30	-1.2	1	20	39	10.7	0.1	1	1908
2418165	8	45	57.61	0.9	4	19	20	10.5	0.6	4	1908
2418168	9	10	51.02	-1.2	2	17	54	47.4	1.0	2	1908
2418187	11	29	7.49	-1.3	2	4	24	43.6	0.0	2	1908
2418193	12	4	55.19	0.9	3	-	0	10 41.1	0.2	3	1908
2418197	12	27	16.78	-0.9	2	-	3	7 53.7	0.1	2	1908
2418202	12	53	49.61	-0.8	3	-	6	38 41.8	0.7	3	1908
2418208	13	23	47.05	0.4	3	-10	31	22.3	-0.2	3	1908
2418215	13	55	43.64	1.5	4	-14	26	1.0	1.0	4	1908
2418223	14	25	40.26	0.4	4	-17	45	1.6	-0.4	5	1908
2418229	14	39	6.43	0.8	3	-18	59	5.5	-0.2	3	1908
2418234	14	39	40.64	0.2	1	-18	41	46.4	-0.4	1	1908
2418252	13	46	4.55	0.1	1	-	9	2 12.2	0.4	1	1908
2418259	14	0	52.91	1.0	3	-	9	50.10.7	-0.2	3	1908
2418263	14	18	8.48	1.0	5	-11	29	38.5	0.1	5	1908
2418266	14	33	23.31	1.7	3	-12	59	10.0	0.1	3	1908
2418269	14	49	54.19	0.9	2	-14	33	34.2	0.2	2	1908
2418275	15	25	20.85	3.0	2	-17	39	31.0	0.1	2	1908
2418278	15	43	53.97	1.4	3	-19	5	35.1	-1.2	3	1908
2418285	16	28	46.79	1.4	2	-21	57	14.7	0.9	2	1908
2418308	19	7	43.34	1.4	2	-24	35	29.2	-0.3	2	1909
2418313	19	43	20.48	-0.6	1	-23	29	27.2	0.7	1	1909
2418323	20	52	6.31	1.9	1	-19	21	35.3	-1.4	1	1909
2418328	21	22	34.95	0.1	5	-16	29	27.1	0.0	5	1909
2418333	21	46	43.33	0.0	3	-13	27	54.8	0.3	3	1909
2418336	21	56	9.21	-1.2	1	-11	49	50.0	-0.7	1	1909
2418356	21	6	55.60	-0.4	1	-13	12	7.2	1.3	1	1909
2418364	21	2	17.68	1.6	1	-15	16	2.2	0.1	1	1909
2418368	21	9	59.00	-0.1	4	-15	36	3.2	0.9	4	1909
2418372	21	22	18.30	1.6	3	-15	28	43.0	0.4	4	1909
2418374	21	29	47.26	0.6	2	-15	15	19.3	0.2	2	1909
2418382	22	5	49.72	0.9	5	-13	21	33.4	-0.2	5	1909
2418385	22	21	9.88	0.1	4	-12	15	35.0	0.3	4	1909
2418388	22	37	13.66	1.3	3	-10	57	41.0	-0.2	3	1909
2418393	23	5	22.10	0.8	3	-	8	22 30.9	0.4	3	1909
2418397	23	29	0.66	0.2	3	-	5	56 41.9	0.2	3	1909
2418404	0	12	54.08	1.5	3	-	0	58 30.5	0.3	3	1909
2418407	0	32	49.76	1.3	4	1	24	29.8	0.7	4	1909
2418413	1	15	6.96	-0.1	4	6	32	19.2	0.6	4	1909
2418422	2	25	8.65	0.3	2	14	32	46.3	0.5	2	1909
2418425	2	49	46.24	1.0	1	17	1	25.4	0.9	1	1909
2418433	3	54	9.57	0.0	3	22	14	42.4	-0.1	3	1909
2418439						24	28	11.6	1.3	2	1909
2418441	4	49	16.48	-0.6	2	24	53	38.3	0.0	2	1909
2418445	5	11	12.73	0.4	5	25	19	24.4	-0.1	5	1909
2418451	5	35	30.80	0.9	1	25	5	14.3	0.5	1	1909
2418491	5	21	24.89	0.7	4	19	21	40.1	-0.3	4	1909
2418495	5	33	19.20	-0.7	4	20	13	55.6	0.0	4	1909

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	H	M	S	"		°	'	"	"		
2418498	5	45	50.65	0.7	3	20	57	20.4	0.0	3	1909
2418504	6	19	52.24	1.3	3	22	15	18.0	0.2	3	1909
2418508	6	48	41.57	-1.0	5	22	44	7.7	0.0	6	1909
2418512	7	21	23.64	-0.1	2	22	40	18.3	0.3	2	1909
2418515	7	47	31.53	0.0	2	22	10	50.1	0.0	2	1909
2418518	8	14	8.22	-0.3	2	21	17	26.1	0.1	2	1909
2418528	9	38	3.44	1.2	3	15	58	50.1	1.1	3	1909
2418533	10	14	51.86	0.1	2	12	30	21.1	1.0	2	1909
2418538	10	48	11.60	-0.2	4	8	49	12.8	0.6	4	1909
2418542	11	12	40.33	0.3	4	5	49	52.5	0.6	4	1909
2418545	11	29	55.08	0.0	4	3	36	22.0	-0.1	4	1909
2418549	11	51	35.09	-1.3	2	0	42	0.3	0.0	2	1909
2418552	12	6	54.87	0.4	3	-1	24	41.1	-0.1	3	1909
2418558	12	35	16.51	-0.4	3	-5	23	17.0	0.1	3	1909
2418564	13	0	16.46	0.5	6	-8	54	45.9	-0.2	6	1909
2418568	13	14	32.63	-0.7	2	-10	54	52.1	-0.5	3	1909
2418572	13	26	9.60	0.8	2	-12	32	8.9	-0.9	2	1909
2418577	13	35	20.26	-0.8	2	-13	49	4.6	-1.4	2	1909
2418580	13	36	55.74	-1.9	2	-14	2	25.0	-0.6	2	1909
2418600	12	46	15.47	1.5	3						1909
2418601						-3	47	0.1	-0.6	4	1909
2418604	12	49	55.35	0.8	2	-3	32	22.9	-0.2	2	1909
2418608	13	2	11.61	2.9	3	-4	22	43.6	0.2	3	1909
2418611	13	15	17.23	0.2	2	-5	38	5.7	0.1	2	1909
2418615	13	35	54.12	2.1	4	-7	47	49.0	0.5	4	1909
2418618	13	52	47.06	-0.1	4	-9	36	13.4	-0.7	4	1909
2418623	14	22	24.61	0.4	3	-12	41	41.2	0.0	3	1909
2418629	14	59	21.82	-0.1	1	-16	13	59.9	-2.1	1	1909
2418638	15	56	47.42	2.2	2	-20	43	14.9	0.4	2	1909
2418652						-24	54	17.2	1.1	1	1909
2418657	18	5	40.46	2.0	2	-25	23	30.3	0.8	2	1909
2418664	18	54	44.41	1.9	4	-25	3	9.0	-0.4	4	1909
2418679						-20	16	44.3	0.1	3	1910
2418680	20	35	23.69	-0.3	2						1910
2418682	20	44	11.12	0.4	3	-18	52	21.3	-0.4	3	1910
2418687	20	57	25.44	0.6	2	-16	41	59.9	0.7	2	1910
2418706	19	55	30.17	2.5	3	-17	30	53.4	0.9	3	1910
2418714	19	56	54.58	-0.3	2	-18	56	40.7	-0.1	2	1910
2418719	20	11	8.04	1.0	3	-19	13	54.3	-0.7	3	1910
2418722	20	22	46.83	0.7	3	-19	9	6.6	0.6	3	1910
2418727	20	45	42.22	0.6	3	-18	35	9.4	0.3	3	1910
2418737	21	39	35.98	0.4	4	-15	49	1.0	-0.4	4	1910
2418740	21	57	4.90	1.4	5	-14	33	51.8	0.6	5	1910
2418743	22	15	0.06	0.2	1	-13	7	15.5	-0.2	1	1910
2418748	22	45	44.98	0.7	2	-10	17	52.3	0.2	3	1910
2418753	23	17	36.44	0.2	5	-6	58	2.7	0.3	5	1910
2418764	0	32	30.86	-1.0	1	1	59	1.2	0.3	1	1910
2418771	1	24	19.52	0.5	2	8	28	17.6	0.1	2	1910
2418777	2	10	15.08	-0.2	4	13	54	20.0	-0.2	4	1910
2418780	2	32	47.06	0.0	1	16	20	32.5	-0.2	1	1910
2418784	3	1	11.67	-0.2	1	19	6	52.1	0.4	1	1910
2418790	3	37	53.59	-0.2	3	22	2	54.7	0.5	3	1910
2418798	4	11	11.85	-0.7	1	23	39	56.1	0.4	1	1910
2418837	3	59	28.51	-0.5	2	16	28	39.3	-0.6	2	1910
2418844	4	21	43.39	0.4	4	18	13	54.8	-0.3	4	1910

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DATE	R. A.			O-C	WT.	DEC.			O-C	WT.	YEAR
	H	M	S	"		O	"	"	"		
2418852	5	3	41.56	0.2	4	20	58	27.5	-0.1	4	1910
2418854	5	16	56.25	0.5	1	21	38	45.4	0.7	2	1910
2418859	5	54	41.15	-0.9	1	23	2	24.0	0.7	2	1910
2418864	6	38	1.60	-0.6	4	23	42	3.5	0.8	4	1910
2418875	8	18	52.05	0.0	2	21	23	57.9	0.4	2	1910
2418881	9	8	34.55	-0.2	3	18	16	26.5	1.2	4	1910
2418887	9	52	17.87	-0.2	5	14	26	2.9	0.8	5	1910
2418890	10	12	2.30	-0.7	2	12	22	27.6	0.7	2	1910
2418895	10	42	8.57	-0.2	1	8	51	49.1	0.8	1	1910
2418903	11	23	51.86	-0.1	3	3	19	36.0	0.6	3	1910
2418907	11	41	56.22	0.3	2	0	42	45.8	0.3	2	1910
2418917	12	18	0.20	-0.2	1	-4	53	57.1	-0.4	1	1910
2418923	12	31	6.58	-0.8	3	-7	11	39.4	-0.1	4	1910
2418927	12	34	32.43	0.1	3	-7	58	54.2	0.5	3	1910
2418949	11	46	21.58	0.9	3	1	28	7.6	0.6	3	1910
2418952	11	48	50.20	0.0	2	2	5	16.5	-0.2	2	1910
2418958	12	8	10.14	1.3	5	1	4	12.5	0.2	5	1910
2418962	12	28	6.64	-0.1	4	-0	50	42.2	0.0	4	1910
2418965	12	44	59.73	0.5	5	-2	39	28.2	0.1	5	1910
2418971	13	20	58.59	1.2	3	-6	42	53.2	-0.2	3	1910
2418975	13	45	36.09	0.3	2	-9	28	54.9	0.2	2	1910
2418984	14	41	36.51	0.2	1	-15	18	17.7	0.1	1	1910
2418996	15	58	2.33	2.2	2	-21	26	45.2	0.6	2	1910
2419002	16	37	27.74	2.7	1	-23	36	20.9	-0.6	1	1910
2419008	17	17	40.37	1.3	2	-25	2	44.5	0.3	2	1910
2419014	17	58	12.84	2.0	2	-25	40	58.4	-0.1	2	1910
2419018	18	24	54.16	0.0	2	-25	37	37.4	0.1	2	1910
2419023	18	56	49.78	-0.2	2	-25	0	12.3	0.3	2	1910
2419028	19	25	8.63	0.9	2	-23	48	29.4	0.2	2	1910
2419033	19	46	0.82	-0.8	1	-22	12	48.6	-0.2	1	1910
2419055	18	46	18.21	-0.5	1	-19	44	44.9	0.0	1	1911
2419061	18	45	50.88	0.5	4	-20	35	36.5	0.1	4	1911
2419067	19	2	12.71	1.1	4	-21	17	53.0	-0.4	4	1911
2419070	19	14	22.69	-1.6	1	-21	29	15.1	-0.1	2	1911
2419077	19	48	59.13	0.5	3	-21	20	9.2	0.3	4	1911
2419085	20	34	47.03	-2.2	1	-19	58	44.5	0.3	1	1911
2419089						-18	47	30.4	-0.2	4	1911
2419090	21	5	18.66	0.7	3						1911
2419095	21	36	46.46	0.4	3	-16	21	27.1	0.7	3	1911
2419097	21	49	34.53	0.4	3						1911
2419098						-14	50	42.8	0.2	4	1911
2419103	22	28	40.04	-0.1	2	-11	53	20.1	0.0	3	1911
2419106	22	48	37.20	-0.7	4	-9	51	25.1	0.3	4	1911
2419111	23	22	34.42	2.4	1	-6	3	18.6	1.1	1	1911
2419121	0	33	19.81	1.8	3	2	50	49.4	-0.3	3	1911
2419125	1	2	13.39	0.1	3	6	38	30.7	0.2	3	1911
2419134						14	19	56.6	-0.4	2	1911
2419138	2	25	3.39	-0.9	3	16	52	20.0	-0.2	3	1911
2419144	2	48	57.32	-1.1	2						1911
2419179	2	32	18.48	-0.5	2	11	24	19.8	-0.1	2	1911
2419184	2	41	34.11	-0.4	1	11	51	17.9	-0.2	1	1911
2419189	2	56	51.04	0.3	1	13	6	20.9	1.0	1	1911
2419196	3	27	32.77	1.0	2	15	48	55.7	-0.1	2	1911
2419203	4	9	0.55	-0.7	2	19	6	5.4	-0.5	2	1911
2419208	4	45	33.99	-0.3	2	21	23	59.1	-0.1	2	1911

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	H	M	S	"		O	"	"	"		
2419230	8	5	2.67	0.4	4	22	13	21.5	0.0	4	1911
2419234	8	37	27.06	-1.4	2	20	22	54.5	0.7	2	1911
2419236	8	52	33.14	-0.6	2						1911
2419237						18	45	59.5	0.8	3	1911
2419240	9	20	35.81	1.6	1	17	0	38.5	2.2	1	1911
2419246	9	57	35.87	1.2	2						1911
2419248						11	57	57.5	0.0	2	1911
2419249	10	13	58.85	-0.2	1						1911
2419257	10	51	6.07	-2.7	1	6	18	33.1	1.2	2	1911
2419266	11	20	32.69	-0.1	2	1	29	19.4	0.0	2	1911
2419271	11	29	44.23	-1.0	1	- 0	25	37.9	0.4	1	1911
2419279	11	29	36.18	-0.3	1	- 1	27	35.0	0.5	1	1911
2419304						7	34	9.1	0.1	2	1911
2419306	11	4	42.99	1.1	1						1911
2419309	11	19	20.36	0.2	3	6	6	7.9	0.0	3	1911
2419314	11	48	19.35	-0.6	2	3	20	39.6	-0.1	2	1911
2419318	12	13	22.56	-0.6	2	0	36	28.9	-0.5	2	1911
2419350	15	32	56.90	1.2	1	-20	21	43.2	0.5	1	1911
2419411	17	40	32.83	1.4	2	-20	54	16.1	0.1	2	1912
2419418	18	5	12.79	1.8	3	-22	3	31.9	0.1	3	1912
2419422	18	24	39.03	-1.1	1	-22	34	3.9	0.0	1	1912
2419427	18	52	9.23	-1.0	1	-22	52	43.4	1.0	1	1912
2419431	19	15	52.54	-0.1	2	-22	48	25.0	0.0	2	1912
2419438	19	59	42.81	1.0	1	-21	54	0.1	0.5	1	1912
2419441	20	19	6.91	1.3	2	-21	11	14.9	0.7	2	1912
2419450	21	18	41.95	-0.2	1	-17	49	40.7	0.2	1	1912
2419469	23	29	12.52	1.1	1	- 4	41	57.1	-1.3	1	1912
2419478	0	30	53.11	-1.1	1	3	34	53.4	0.0	1	1912
2419481	0	49	47.74	-0.8	2	6	15	19.2	-0.2	2	1912
2419484	1	6	54.21	-1.6	1	8	42	11.9	0.5	1	1912
2419488	1	25	44.85	-1.7	2	11	25	27.5	0.4	2	1912
2419493	1	41	3.65	-0.2	2	13	40	17.0	-0.4	2	1912
2419526	1	16	17.14	1.2	2	5	27	14.8	-0.6	2	1912
2419529	1	21	59.41	1.4	2	5	36	11.7	0.1	2	1912
2419533	1	32	46.28	0.8	4	6	18	55.7	-0.3	4	1912
2419537						7	31	51.9	0.5	2	1912
2419538	1	50	43.32	1.5	2						1912
2419542	2	8	17.25	0.2	5	9	37	15.0	-0.2	5	1912
2419547	2	34	3.72	0.5	5	12	11	25.5	0.0	5	1912
2419551	2	57	48.67	1.4	3	14	28	49.2	0.6	3	1912
2419555	3	24	32.85	-0.2	3	16	52	22.2	-0.4	3	1912
2419558	3	46	42.10	0.7	2	18	39	38.9	-0.2	2	1912
2419564	4	36	31.78	-0.5	4	21	55	0.5	-0.5	4	1912
2419566	4	54	37.50	-1.4	3	22	48	53.5	0.4	3	1912
2419575	6	20	19.49	-1.0	3	24	52	40.5	0.9	4	1912
2419578	6	48	20.50	-1.2	1	24	44	35.2	0.7	1	1912
2419585	7	48	22.14	-0.7	3	23	2	18.2	0.6	3	1912
2419589	8	18	31.87	-1.0	4	21	24	32.6	0.4	4	1912
2419593	8	45	34.54	-0.7	5	19	28	16.4	0.6	5	1912
2419598	9	15	7.63	0.1	3	16	47	21.3	2.0	3	1912
2419602	9	35	27.27	-1.2	5	14	33	20.8	0.1	5	1912
2419607	9	56	41.60	-1.0	2	11	48	14.4	-0.1	2	1912
2419613	10	15	36.57	-1.0	3	8	47	58.9	0.1	3	1912
2419616	10	22	2.12	-1.3	1	7	31	23.9	0.4	1	1912
2419621	10	27	29.89	-0.5	2	5	55	6.3	-0.3	2	1912

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	H	M	S	"		O	'	"	"		
2419656	10	8	24.41	-1.2	3	12	15	44.1	-0.1	3	1912
2419659	10	24	56.88	-2.0	2	11	15	44.9	-0.3	2	1912
2419665	11	3	28.60	2.1	2	7	59	25.8	0.0	2	1912
2419668	11	23	44.88	-0.4	3	5	55	15.6	0.2	3	1912
2419673	11	57	17.91	-0.6	2	2	9	20.2	0.4	2	1912
2419685	13	13	33.93	1.4	2	- 7	3	18.3	0.5	2	1912
2419693	14	1	49.57	0.8	2	-12	37	43.1	0.1	2	1912
2419705	15	13	7.72	-0.2	1	-19	31	17.0	-1.0	1	1912
2419713	16	0	27.36	0.3	2	-22	52	13.2	0.2	2	1912
2419718	16	29	18.49	0.5	2	-24	20	43.4	0.4	2	1912
2419721	16	45	51.55	0.4	2	-24	58	17.3	0.2	2	1912
2419726	17	10	49.23	0.1	3	-25	32	25.9	-0.2	3	1912
2419729	17	23	5.05	-1.1	4	-25	34	35.5	-0.4	4	1912
2419735	17	36	17.81	-0.7	2	-24	54	8.1	-0.8	2	1912
2419757	16	29	15.81	0.3	2	-18	56	51.6	-1.0	2	1912
2419765	16	52	3.58	-0.9	1	-20	33	22.7	-0.3	1	1912
2419771	17	21	15.28	0.0	2	-22	2	13.5	-0.7	2	1913
2419786	18	52	29.32	0.8	1	-23	43	42.3	0.2	1	1913
2419804	20	54	46.07	-0.2	1						1913
2419818						-10	55	49.0	0.0	1	1913
2419829	23	45	1.87	-1.1	2	- 1	33	38.9	0.7	2	1913
2419833	0	7	17.44	-0.2	5	1	47	48.7	0.1	5	1913
2419838	0	28	7.07	0.8	2	5	16	16.1	-0.8	2	1913
2419841	0	35	35.49	0.4	2	6	43	48.2	-0.3	2	1913
2419870	23	59	51.87	1.8	1	- 0	46	47.6	0.4	1	1913
2419874	0	5	39.08	0.2	2	- 1	2	27.9	0.3	2	1913
2419880	0	21	32.23	0.2	2	- 0	16	19.6	-0.7	2	1913
2419887	0	48	25.78	0.8	3	2	3	59.2	-0.4	3	1913
2419890	1	2	10.58	0.0	3	3	27	4.4	0.0	3	1913
2419898	1	44	40.68	0.4	1	8	0	22.3	0.4	1	1913
2419909	2	58	8.46	0.5	3	15	32	32.3	0.6	3	1913
2419913	3	29	57.03	-0.7	3	18	18	54.4	0.3	3	1913
2419916	3	55	39.68	-0.8	4	20	15	21.6	-0.2	4	1913
2419925	5	19	8.90	0.0	1	24	26	27.7	0.1	1	1913
2419930	6	5	26.96	-0.6	3	25	15	35.0	-1.7	3	1913
2419933	6	31	44.45	1.2	1	25	13	11.8	-0.8	1	1913
2419938	7	11	58.19	-0.9	3	24	24	27.9	-0.2	3	1913
2419942	7	40	30.87	-0.4	1	23	14	4.3	0.9	1	1913
2419949	8	22	18.18	0.9	1	20	28	10.3	1.5	1	1913
2419964	9	14	30.69	-0.1	1	13	59	10.6	0.4	1	1913
2419994	8	32	53.54	-0.5	2	15	46	17.1	-0.8	2	1913
2420001	8	46	31.33	-0.8	2	16	59	11.8	0.5	2	1913
2420006	9	10	17.31	0.8	2	16	38	2.9	1.9	2	1913
2420015	10	11	0.87	-0.6	1	12	57	50.6	-1.8	1	1913
2420021	10	54	40.43	-0.3	1	8	53	54.0	-1.1	1	1913
2420035	12	27	42.38	1.1	1						1913
2420037						- 3	33	41.3	0.2	2	1913
2420057	14	34	33.32	-0.3	2	-16	51	13.2	-0.2	2	1913
2420076	16	8	50.79	0.8	2	-23	53	1.0	-0.1	3	1913
2420081	16	23	28.74	1.1	2	-24	14	41.9	-0.7	2	1913
2420085	16	26	57.44	1.0	1	-23	50	22.3	-0.3	1	1913
2420103	15	24	12.20	2.5	1	-16	0	29.2	0.4	1	1913
2420108	15	28	26.80	0.9	2	-16	11	34.0	-0.8	2	1913
2420112	15	40	55.31	0.2	4	-17	12	17.2	-0.2	4	1913
2420116	15	58	26.09	0.0	2	-18	33	35.1	0.3	2	1913

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	H	M	S	"		°	'	"	"		
2420121	16	24	41.83	0.4	3	-20	20	33.6	0.7	3	1913
2420124	16	41	59.55	-0.3	1	-21	20	29.1	-1.2	1	1913
2420129	17	12	34.23	0.0	1						1913
2420142	18	38	32.22	0.1	4	-24	21	9.3	0.1	4	1914
2420145	18	59	14.03	0.1	1	-24	12	40.5	0.0	1	1914
2420148	19	20	8.22	-0.1	2	-23	51	34.6	0.5	2	1914
2420169	21	47	57.89	3.8	1	-15	7	7.1	0.6	1	1914
2420173	22	15	1.74	0.5	1	-12	15	3.4	0.7	1	1914
2420184	23	17	43.62	0.0	3	-3	42	11.7	-0.2	3	1914
2420194	23	35	38.75	-0.8	1	0	45	1.9	-2.4	1	1914
2420216	22	48	52.76	0.5	1	-6	47	57.9	-0.6	1	1914
2420224	23	2	46.91	0.0	2	-7	13	15.6	-0.9	2	1914
2420228	23	15	32.93	0.5	2	-6	34	30.8	-0.5	2	1914
2420232	23	31	4.34	-0.5	3	-5	26	52.5	-0.2	2	1914
2420239	0	3	18.67	0.2	5	-2	29	5.6	-0.2	5	1914
2420242	0	18	46.42	0.5	5	-0	52	48.7	0.6	5	1914
2420247	0	46	33.69	-0.6	5	2	10	36.6	0.3	5	1914
2420252	1	16	57.72	-0.3	5	5	38	39.8	-0.4	5	1914
2420256	1	43	22.98	0.2	2	8	39	8.2	0.0	2	1914
2420261	2	19	26.36	-0.8	2	12	35	32.6	0.0	2	1914
2420267	3	7	37.65	-0.8	6	17	17	30.9	0.4	6	1914
2420274	4	9	34.72	0.7	4	21	58	7.9	0.7	4	1914
2420276	4	27	46.68	-0.4	1	23	0	4.9	-1.6	1	1914
2420280	5	3	43.71	0.3	2	24	32	59.8	-0.9	2	1914
2420288	6	9	34.92	-0.4	7	25	34	15.5	0.0	7	1914
2420290	6	24	10.70	-1.4	1	25	27	0.7	1.1	1	1914
2420295	6	56	47.79	-1.0	4	24	38	57.1	0.0	4	1914
2420301	7	28	4.14	-0.3	3	23	1	14.6	-0.8	4	1914
2420306	7	47	1.27	-0.7	4	21	22	18.4	0.0	4	1914
2420308	7	52	39.27	-1.3	2	20	41	26.4	1.0	2	1914
2420313	8	1	29.96	-2.3	1	19	3	15.5	0.1	1	1914
2420349	7	34	27.77	0.1	3	19	46	14.5	-1.6	3	1914
2420353	7	52	27.93	0.0	4	20	5	0.2	0.1	4	1914
2420358	8	23	21.44	-0.4	6	19	41	45.4	0.3	6	1914
2420363	9	0	35.76	0.8	3	18	13	20.2	-1.2	3	1914
2420367	9	32	15.26	0.4	2	16	16	21.5	-0.4	2	1914
2420376						10	10	56.8	-0.3	1	1914
2420378	10	55	12.58	-0.8	2	8	39	16.7	1.0	2	1914
2420381	11	15	43.39	-0.3	1						1914
2420386	11	47	58.53	1.1	1	2	23	22.7	-0.8	1	1914
2420391	12	18	11.58	0.5	2	-1	28	7.9	-1.0	2	1914
2420399	13	3	21.84	1.3	4	-7	18	8.1	0.5	4	1914
2420403	13	24	48.02	-0.4	4	-9	59	57.2	0.4	4	1914
2420407	13	45	33.26	0.0	3	-12	30	51.2	0.2	4	1914
2420412	14	10	26.53	0.8	2	-15	21	27.1	0.3	2	1914
2420416	14	29	14.80	1.5	1	-17	20	53.5	-0.4	1	1914
2420426	15	7	54.45	0.5	4	-20	49	41.7	-0.3	2	1914
2420428						-21	10	33.5	-0.2	3	1914
2420433	15	19	13.35	1.0	1	-21	17	37.4	0.2	1	1914
2420444	14	46	48.38	0.5	1	-16	16	49.0	1.2	1	1914
2420456	14	24	33.45	0.3	6	-11	48	43.9	-0.2	6	1914
2420462	14	44	0.04	0.3	5	-13	28	18.4	-0.1	5	1914
2420467	15	8	9.17	0.5	4	-15	39	42.8	-0.1	4	1914
2420470	15	24	34.41	-0.3	6	-17	3	52.0	-0.2	6	1914
2420478	16	12	26.99	-0.3	1	-20	33	26.4	-0.5	1	1914

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2420482	16	37	54.25	0.6	3	-22	0	30.7	-0.5	3	1914
2420486	17	4	6.63	0.2	2	-23	11	35.9	-0.7	2	1914
2420493	17	51	27.88	-1.8	1	-24	31	27.7	-0.2	1	1914
2420500	18	40	18.66	-1.6	1						1915
2420513	20	12	53.70	1.9	2	-22	6	0.9	-0.1	3	1915
2420524	21	28	27.97	1.8	1	-16	27	40.2	-0.1	1	1915
2420532	22	13	55.94	-0.6	3	-11	4	37.4	-0.8	3	1915
2420538	22	33	30.63	-0.9	1	-7	33	35.4	-0.8	1	1915
2420563	21	40	6.68	-0.6	3	-12	8	41.5	1.1	3	1915
2420566	21	42	31.69	0.2	2	-12	40	24.2	0.4	2	1915
2420573	21	59	25.01	0.2	4	-12	43	42.9	0.4	4	1915
2420577	22	14	7.26	0.0	4	-12	5	36.4	0.2	4	1915
2420581	22	31	19.78	0.5	3	-11	1	44.8	0.1	3	1915
2420587	23	0	34.43	1.1	4	-8	42	18.1	-0.3	4	1915
2420589	23	11	3.23	0.3	4	-7	45	3.1	-0.8	5	1915
2420596	23	50	11.44	0.2	4	-3	45	54.2	-0.1	4	1915
2420603	0	33	6.74	0.0	7	1	7	35.7	0.3	7	1915
2420607	0	59	34.20	-0.7	3						1915
2420608						5	5	9.8	1.0	4	1915
2420615						11	3	11.3	0.7	4	1915
2420616	2	5	28.15	0.0	4						1915
2420622	2	54	33.65	-0.4	1	16	57	13.7	-0.6	1	1915
2420628	3	45	51.23	-0.5	3	21	11	37.3	1.0	3	1915
2420633	4	27	26.78	-0.5	2	23	41	26.0	-1.0	2	1915
2420638	5	5	30.32	-0.2	1	25	7	54.3	-0.6	1	1915
2420644	5	44	16.23	-1.3	4	25	37	26.5	0.0	4	1915
2420649	6	9	36.94	0.0	1	25	13	58.3	0.6	1	1915
2420658	6	36	39.37	-1.1	3	23	22	28.0	-0.6	3	1915
2420694	6	9	59.89	-0.6	2	20	7	51.2	0.4	2	1915
2420699	6	27	48.89	0.2	2						1915
2420700						21	18	5.7	-0.2	3	1915
2420705	7	1	16.83	0.5	2	21	56	54.7	0.5	3	1915
2420709	7	29	57.87	0.0	4	21	57	47.5	-0.4	4	1915
2420715	8	19	11.17	-0.5	4	20	46	22.9	-0.2	4	1915
2420720	9	1	49.19	0.3	2	18	36	39.6	-0.5	2	1915
2420729	10	13	3.76	1.0	1	12	50	13.7	0.8	1	1915
2420735	10	54	42.38	-0.2	2	8	21	0.4	-0.1	3	1915
2420741	11	32	11.66	-0.1	1	3	45	47.9	0.1	1	1915
2420750	12	22	23.68	0.5	3	-2	52	53.3	0.1	3	1915
2420753	12	37	48.20	0.0	4	-4	58	2.9	-0.4	4	1915
2420757	12	57	23.34	0.5	3	-7	36	31.5	-0.4	2	1915
2420764	13	28	44.66	0.9	5	-11	44	22.3	-0.1	6	1915
2420769	13	48	6.87	0.1	2	-14	10	55.5	0.8	2	1915
2420775	14	5	57.51	1.0	1	-16	18	24.9	1.7	1	1915
2420779	14	12	39.91	0.0	1	-17	1	15.5	1.0	1	1915
2420783	14	13	12.08	0.6	1	-16	55	19.1	-1.2	1	1915
2420801	13	20	59.67	-0.2	1	-7	6	39.5	-0.6	1	1915
2420806	13	26	52.86	0.3	4	-6	52	4.7	-0.7	5	1915
2420814	13	59	18.23	-0.4	4	-9	53	56.9	-1.1	4	1915
2420819	14	26	28.53	0.5	4	-12	39	12.2	-1.8	4	1915
2420822	14	43	57.68	-0.6	2	-14	21	18.3	-0.1	4	1915
2420828	15	20	31.69	0.6	3	-17	36	17.3	-0.4	3	1915
2420832	15	45	46.59	0.5	3	-19	33	4.4	-0.6	3	1915
2420835	16	5	6.11	-0.3	3	-20	51	31.0	0.6	2	1915
2420839	16	31	21.70	0.2	2	-22	22	12.7	-1.8	2	1915

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2420842	16	51	24.59	-1.4	1	-23	18	42.7	1.3	1	1915
2420854	18	14	17.32	2.0	1	-25	12	44.9	-0.5	1	1915
2420862	19	10	59.15	-1.6	1	-24	35	49.6	-0.1	1	1915
2420867	19	46	10.31	0.1	2	-23	22	32.8	-0.3	2	1916
2420879	21	2	39.52	0.1	3	-18	1	0.7	-0.1	3	1916
2420884	21	24	55.90	0.2	3	-15	17	15.5	0.0	3	1916
2420888						-13	26	0.6	-0.4	3	1916
2420889	21	34	34.89	0.6	2						1916
2420909						-15	59	56.1	0.0	3	1916
2420910	20	31	59.31	0.7	2						1916
2420914	20	34	17.91	1.3	4	-16	57	55.0	-0.5	4	1916
2420917	20	40	16.46	0.0	3	-17	14	22.9	0.7	3	1916
2420922	20	56	9.91	0.5	1	-17	11	22.2	0.2	1	1916
2420926	21	12	41.09	1.7	1	-16	42	22.5	0.8	1	1916
2420933	21	46	47.89	1.0	4	-14	57	32.2	0.6	4	1916
2420937	22	8	18.59	-0.3	4	-13	28	2.0	0.1	4	1916
2420942	22	36	40.74	0.6	2	-11	7	11.8	-0.1	2	1916
2420948	23	12	33.82	-0.7	3	-7	37	27.4	-0.5	3	1916
2420954	23	50	28.16	0.2	3	-3	25	43.9	0.7	3	1916
2420959						0	33	13.4	-0.1	2	1916
2420960	0	30	45.52	0.7	3						1916
2420980	3	3	44.01	-0.6	4	18	43	15.4	-0.3	4	1916
2420984	3	33	54.61	-0.1	2	21	12	26.6	-0.7	2	1916
2420994	4	35	43.60	-0.8	2	24	34	31.3	-0.6	2	1916
2421002	5	5	6.41	-1.7	4	24	42	54.6	-0.6	4	1916
2421004	5	9	8.24	-2.1	2	24	28	6.4	-0.2	2	1916
2421037	4	42	12.69	-1.8	3	17	59	55.3	-0.3	3	1916
2421044	4	59	45.79	-0.8	3	19	23	15.6	-1.0	3	1916
2421048	5	16	42.24	0.4	1	20	28	59.3	-0.8	2	1916
2421052	5	38	35.23	0.5	2	21	36	2.9	-0.2	2	1916
2421057	6	12	39.27	0.0	3	22	44	25.1	-1.0	3	1916
2421060	6	36	19.51	-0.6	2	23	7	48.2	-1.3	2	1916
2421064	7	10	44.00	-1.0	2	23	8	9.4	-1.1	2	1916
2421075	8	48	50.22	-0.5	3						1916
2421083	9	51	40.58	0.4	3	14	41	2.6	-1.1	3	1916
2421083	9	51	40.53	-0.7	2						1916
2421086	10	12	41.05	-0.1	3	12	35	3.5	-0.2	3	1916
2421088	10	25	58.30	-0.1	5						1916
2421093	10	56	54.88	0.8	4	7	30	1.4	0.0	4	1916
2421093	10	56	54.83	-0.4	2						1916
2421099	11	30	16.64	-0.8	2						1916
2421100	11	35	28.70	-0.1	3	2	26	59.4	0.2	3	1916
2421107	12	9	9.52	2.3	1						1916
2421114	12	37	45.09	0.3	5	-6	29	35.7	0.1	5	1916
2421119	12	54	11.71	0.3	4	-8	57	49.6	-0.2	4	1916
2421128	13	10	23.46	0.1	5	-11	33	4.6	-0.5	5	1916
2421153	12	23	29.78	-0.6	4	-1	11	7.0	-0.5	5	1916
2421157	12	34	24.44	0.2	4	-1	41	54.2	-0.7	4	1916
2421161	12	51	43.61	0.8	4	-3	16	50.6	-0.1	5	1916
2421165	13	12	47.85	-0.4	2	-5	30	14.9	0.4	2	1916
2421168	13	29	57.18	0.9	4	-7	23	7.7	-0.4	3	1916
2421171	13	47	45.05	0.0	2	-9	20	11.7	0.9	2	1916
2421176	14	18	12.82	-0.2	2	-12	34	8.6	-0.1	2	1916
2421179	14	36	47.92	-1.5	1	-14	25	41.6	-0.5	1	1916
2421183	15	1	52.59	-0.9	1	-16	45	25.4	0.0	1	1916

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2421201	16	59	33.53	-2.8	1						1916
2421205	17	26	51.92	1.8	1	-25	0	18.4	-0.8	1	1916
2421207	17	40	38.02	1.4	2						1916
2421219	19	3	8.78	0.1	2						1916
2421237	20	30	43.21	0.2	1	-18	43	48.4	0.2	1	1917
2421289	21	27	42.95	1.9	2	-16	48	5.4	-1.1	2	1917
2421294	21	58	6.44	1.5	1	-14	35	35.9	-0.3	1	1917
2421298	22	23	6.64	0.4	1	-12	26	37.0	-0.4	1	1917
2421304	23	1	44.72	-0.3	2	-8	35	27.3	0.6	2	1917
2421309	23	35	6.90	1.1	2	-4	49	34.2	0.6	2	1917
2421323	1	15	26.85	-0.6	2	7	45	0.7	0.2	2	1917
2421330	2	7	5.55	-0.7	4	14	1	9.1	-0.9	4	1917
2421335	2	40	56.85	0.2	1	17	41	7.5	0.4	1	1917
2421342	3	18	57.32	-1.8	1	21	5	37.9	-1.8	1	1917
2421347	3	36	57.89	-2.0	1	22	13	13.5	-0.9	1	1917
2421384	3	22	13.23	-1.1	1	14	27	15.7	-0.5	1	1917
2421395	3	57	27.68	-0.8	4	17	16	1.8	0.3	4	1917
2421399	4	17	49.47	-0.2	5						1917
2421400						19	13	1.9	-0.2	4	1917
2421404	4	48	57.50	0.3	3	20	49	25.1	-0.6	3	1917
2421408	5	18	26.78	-0.8	2	22	17	-11.9	-0.2	2	1917
2421413	6	0	34.46	-0.9	3	23	36	18.8	-0.4	3	1917
2421416	6	27	59.11	-0.7	2	23	58	19.0	-0.8	2	1917
2421428	8	18	28.99	-0.8	1	21	29	9.6	0.2	1	1917
2421436	9	21	31.50	-0.5	5	17	8	42.5	0.5	5	1917
2421440						14	34	50.1	0.2	3	1917
2421449						8	29	45.9	0.1	3	1917
2421453						5	49	3.7	-0.3	5	1917
2421458						2	37	17.9	0.3	2	1917
2421464						-0	49	23.8	0.0	2	1917
2421466						-1	49	59.5	3.0	1	1917
2421506	11	35	40.22	0.7	1	4	5	46.3	0.0	1	1917
2421513	12	10	21.81	-0.1	1	1	0	52.7	-0.9	1	1917
2421518	12	40	11.86	-0.3	4	-2	15	28.1	-1.4	5	1917
2421524	13	17	23.51	0.1	4	-6	32	35.0	-0.4	4	1917
2421526	13	29	50.76	0.3	5	-7	58	19.7	-0.5	5	1917
2421566						-25	42	38.7	-0.2	1	1917
2421572						-25	39	27.1	-0.9	2	1917
2421584						-23	11	33.2	0.6	2	1917
2421619	18	43	24.34	0.3	2	-21	54	9.8	-0.1	2	1918
2421631	19	46	22.12	0.8	2	-21	49	33.3	-0.5	2	1918
2421635	20	10	22.14	0.0	2	-21	11	5.6	-1.4	2	1918
2421641	20	47	48.77	-2.6	1	-19	34	55.3	-1.0	1	1918
2421646	21	19	55.95	-0.7	1	-17	38	30.9	-0.6	1	1918
2421652	21	59	18.20	-0.2	2	-14	34	39.1	0.3	2	1918
2421661	23	0	1.93	0.5	2	-8	29	8.6	0.1	2	1918
2421673	0	24	19.10	0.2	2	2	1	57.3	0.0	2	1918
2421677	0	52	23.38	-0.9	2	5	48	15.7	-0.8	2	1918
2421681	1	19	7.85	0.2	1	9	23	48.7	-0.7	1	1918
2421689	2	3	0.64	0.3	1	15	4	41.9	0.4	1	1918
2421729	2	1	18.52	-1.7	2	9	2	16.5	0.2	2	1918
2421735	2	15	17.00	-0.8	3	9	52	59.7	0.1	3	1918
2421740	2	32	56.85	-1.4	2	11	26	5.5	0.0	2	1918
2421744	2	50	40.98	-0.3	4	13	5	35.0	-0.1	4	1918
2421750	3	23	11.33	-0.4	4	16	2	37.1	0.2	3	1918

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2421752	3	35	39.00	-0.8	2	17	5	51.4	0.6	2	1918
2421757	4	10	34.46	-1.4	2	19	44	7.4	0.3	2	1918
2421764	5	8	37.12	-1.9	2	22	54	54.7	0.2	3	1918
2421769	5	55	16.24	-1.8	1	24	17	9.0	-0.1	1	1918
2421777	7	11	18.77	-C.3	2	24	9	46.2	0.5	2	1918
2421783	8	3	28.15	-0.7	2	22	19	15.5	-0.8	2	1918
2421789	8	49	2.33	0.0	2	19	28	4.5	0.4	2	1918
2421793	9	15	42.35	-C.6	3	17	13	35.7	0.4	3	1918
2421805	10	19	21.08	-C.9	3	9	59	13.5	0.0	3	1918
2421811	10	42	10.62	-1.6	2	6	35	12.5	0.6	2	1918
2421816	10	56	0.09	-0.9	1	4	8	53.6	0.2	1	1918
2421820	11	2	59.06	1.1	1	2	36	57.8	2.3	1	1918
2421848	10	18	58.20	0.1	1	9	12	33.7	-0.4	1	1918
2421855	10	35	35.52	C.0	2	9	39	10.4	0.2	2	1918
2421861	11	6	29.45	-C.1	3	7	30	9.9	-0.1	3	1918
2421865	11	31	18.56	0.4	3	5	7	51.5	-0.1	3	1918
2421870	12	3	44.42	-0.5	4	1	35	27.5	-0.2	4	1918
2421876	12	42	26.73	C.7	2	-2	57	58.0	-0.4	2	1918
2421888	13	57	2.26	1.5	1	-11	41	6.6	0.6	1	1918
2421906	15	47	7.38	-C.7	2	-21	38	11.2	-0.6	2	1918
2421911	16	18	3.96	1.4	2	-23	28	23.2	-0.6	2	1918
2421926	17	45	32.54	C.9	2	-25	49	14.8	0.0	2	1918
2421930	18	3	12.74	0.4	1	-25	33	28.4	0.7	1	1918
2421954	17	9	0.63	-2.7	1	-19	51	1.2	1.1	1	1918
2421958	17	7	47.38	1.4	1	-20	2	32.0	-0.7	1	1918
2421962	17	15	43.63	0.3	2	-20	40	4.9	-0.8	2	1919
2421966	17	29	57.16	-0.3	2	-21	27	33.5	0.3	2	1919
2421969	17	43	26.06	1.2	2	-22	2	26.9	-0.2	2	1919
2421975	18	15	5.55	C.8	1	-22	56	27.5	0.5	1	1919
2421986	19	22	15.14	-1.5	1	-23	2	28.8	0.0	1	1919
2421990	19	48	16.55	-0.8	1	-22	27	56.2	-0.5	2	1919
2421997	20	34	54.99	-C.9	1	-20	35	40.5	-0.7	1	1919
2422008	21	49	54.91	-0.8	1						1919
2422024						-2	52	17.0	0.6	1	1919
2422025	23	47	23.89	2.1	2						1919
2422029	0	13	26.51	0.1	2	1	41	15.0	-0.7	3	1919
2422038	1	0	16.10	-1.0	2	8	43	11.3	0.2	2	1919
2422043	1	13	58.19	-0.6	2	11	1	15.8	-2.6	1	1919
2422071	0	41	0.17	-0.1	2	3	8	45.5	0.5	2	1919
2422080	0	56	27.80	-0.1	2	3	9	31.2	-0.2	2	1919
2422084	1	9	7.99	-0.7	3	4	7	9.4	0.3	3	1919
2422093	1	47	39.60	-0.4	6	7	51	58.6	0.1	6	1919
2422098	2	14	29.22	C.5	3	10	38	50.3	-0.3	3	1919
2422101	2	32	28.69	C.0	4	12	28	38.1	-0.5	4	1919
2422106	3	5	53.89	-0.2	5	15	40	43.6	-0.2	5	1919
2422109	3	28	10.77	-1.0	3	17	36	49.2	-0.4	3	1919
2422113	4	0	36.97	-1.3	1	20	4	46.1	0.1	1	1919
2422128	6	20	1.62	1.1	5	25	3	34.5	0.1	5	1919
2422132	6	55	57.47	0.1	4	24	44	35.9	0.5	4	1919
2422140	7	59	13.70	-0.2	3	22	25	59.7	0.6	3	1919
2422143	8	19	40.02	-0.2	1	21	9	53.9	0.0	1	1919
2422157	9	31	17.06	0.2	3	14	9	18.3	0.4	3	1919
2422164	9	51	38.87	-1.2	2	10	54	3.9	0.9	2	1919
2422166	9	55	16.46	-0.9	1	10	6	59.0	-0.7	1	1919
2422198	9	15	5.00	-1.5	2						1919

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2422199						14	24	6.3	-0.1	1	1919
2422213	10	25	50.19	-0.1	4	11	30	9.2	0.5	4	1919
2422219	11	7	31.22	-1.3	5	7	36	10.5	0.1	5	1919
2422241	13	28	43.11	-0.9	2	-9	8	44.8	0.0	2	1919
2422247	14	4	1.98	1.3	2	-13	10	49.6	0.0	2	1919
2422250	14	21	29.93	-0.9	3	-15	2	19.6	0.2	3	1919
2422269	16	9	18.27	0.4	1	-23	37	40.6	-1.2	1	1919
2422273	16	29	44.95	0.8	1	-24	33	10.3	-1.0	1	1919
2422277	16	47	37.86	-0.5	1	-25	5	6.2	-0.5	1	1919
2422282	17	3	24.31	0.9	3						1919
2422315	16	25	59.55	-1.8	1	-19	37	41.3	-0.8	1	1919
2422323	17	6	50.34	-0.3	1	-21	55	27.3	-1.4	1	1919
2422340	18	54	19.51	-1.1	3	-23	57	51.9	1.0	2	1920
2422347	19	42	10.55	1.0	2	-23	4	17.4	0.1	2	1920
2422351	20	9	56.68	-1.0	1	-22	2	33.5	-1.9	1	1920
2422373	22	43	1.51	0.7	2	-9	24	6.8	-0.2	2	1920
2422377	23	9	3.84	-0.3	2	-6	3	14.1	-0.2	2	1920
2422384	23	48	0.31	-1.0	4	-0	17	26.2	-0.3	4	1920
2422388	0	3	20.04	0.5	4	2	24	1.9	-1.2	4	1920
2422392	0	11	19.45	-0.1	1	4	12	41.5	0.3	1	1920
2422422	23	34	1.78	-1.0	1	-3	44	11.4	-0.6	1	1920
2422430	23	55	30.70	0.5	3	-2	49	27.6	0.2	3	1920
2422438	0	28	17.76	0.2	2	0	3	30.0	-0.8	2	1920
2422445	1	3	44.41	-1.3	4	3	47	49.9	0.0	4	1920
2422449	1	26	36.23	-0.8	6	6	19	49.3	-0.1	6	1920
2422454						9	48	13.7	-0.2	3	1920
2422455	2	4	45.47	-0.4	4						1920
2422461	2	48	15.55	-0.9	2	14	59	6.9	0.4	2	1920
2422463	3	4	4.88	-2.0	2	16	27	47.7	-0.5	2	1920
2422478	5	18	38.09	-0.6	3	24	40	3.6	0.1	3	1920
2422483	6	3	12.88	-0.5	4	25	24	18.7	0.0	4	1920
2422494	7	25	47.88	-1.4	1	23	45	29.2	0.2	1	1920
2422500	7	59	49.61	-0.6	6	21	40	55.0	0.7	5	1920
2422504	8	17	51.26	-2.2	2	20	5	48.2	-0.8	2	1920
2422507	8	28	47.84	-1.6	2						1920
2422508						18	28	48.5	0.7	2	1920
2422516	8	46	59.01	-1.4	1	15	36	0.3	1.0	1	1920
2422547	8	6	51.69	-1.4	2	17	52	22.7	-1.3	2	1920
2422550	8	15	3.36	-0.6	1	18	18	16.4	0.2	1	1920
2422554	8	32	22.50	-1.1	2	18	24	34.8	0.2	2	1920
2422568	10	8	48.26	-1.2	2	13	15	31.1	0.3	2	1920
2422571	10	31	16.67	0.6	1	11	13	3.4	0.6	1	1920
2422584	12	0	21.17	0.5	2	1	9	50.0	-0.7	2	1920
2422589	12	31	4.00	0.8	2	-2	42	48.6	-0.2	2	1920
2422592	12	48	47.97	1.3	1	-4	57	59.8	-0.8	1	1920
2422597	13	17	27.30	1.6	1						1920
2422599						-9	55	26.4	-0.2	2	1920
2422603	13	50	41.88	-0.7	2						1920
2422604	13	56	8.19	-1.2	2	-13	9	2.5	0.1	2	1920
2422613	14	43	40.42	0.2	2	-18	7	40.7	-0.5	2	1920
2422622	15	26	32.93	0.3	2	-21	42	46.2	-1.2	2	1920
2422625	15	38	33.11	0.0	3	-22	29	57.6	-1.4	3	1920
2422634	15	58	19.29	-1.7	2	-23	3	46.1	-1.3	2	1920
2422652	14	58	38.77	0.3	1	-14	37	47.9	-1.1	1	1920
2422717	21	10	0.60	0.1	3	-18	21	45.8	0.4	3	1921

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2422719	21	23	53.86	0.6	1	-17	11	30.3	-1.9	1	1921
2422725	22	4	2.13	0.8	1	-13	9	21.8	1.1	1	1921
2422737	23	3	57.16	-0.9	4	-4	35	53.6	-0.1	4	1921
2422739	23	8	27.10	0.2	2						1921
2422740						-3	8	4.8	-0.7	3	1921
2422745	23	8	2.44	1.8	1						1921
2422766	22	20	28.07	-1.6	3	-9	21	37.4	0.0	3	1921
2422772	22	30	48.97	-0.4	4	-9	46	18.4	0.0	4	1921
2422790	23	44	51.06	1.1	2	-4	22	12.6	-0.6	2	1921
2422794	0	6	22.79	1.6	4						1921
2422795						-1	31	9.0	-0.8	3	1921
2422799	0	35	17.98	-0.3	3						1921
2422801	0	47	31.08	-2.0	1	2	30	3.2	-0.6	3	1921
2422808	1	33	37.80	-0.2	3	7	51	28.1	-0.5	3	1921
2422830	4	35	20.03	-1.6	2	23	39	48.9	-0.5	2	1921
2422833	5	0	55.39	-0.5	2	24	41	36.0	-0.6	2	1921
2422843	6	15	6.39	-1.9	4	25	31	9.7	0.2	4	1921
2422854	7	9	37.72	-0.5	2	23	18	46.8	0.0	2	1921
2422857	7	18	40.45	-2.2	3	22	26	34.5	0.1	3	1921
2422898	7	1	35.06	-1.2	3	20	19	52.4	0.4	3	1921
2422904	7	29	48.17	-1.4	4	20	59	37.5	0.4	4	1921
2422908	7	55	48.39	0.0	5	20	51	33.2	-0.7	5	1921
2422912	8	25	58.86	-0.7	3	20	4	29.4	-0.1	3	1921
2422920	9	31	4.45	-0.7	2	16	28	6.8	-0.1	2	1921
2422934	11	13	44.52	0.2	2	6	22	22.0	-0.2	2	1921
2422941	11	57	14.78	0.7	2	0	56	45.6	-1.3	2	1921
2422946	12	25	56.47	1.6	1	-2	48	18.3	-1.1	1	1921
2422954	13	8	41.14	-1.2	2	-8	23	56.5	-0.7	2	1921
2422956	13	18	50.15	1.0	1	-9	41	48.6	-1.5	1	1921
2422968						-16	18	43.7	-0.6	2	1921
2422975	14	39	15.00	-0.6	2	-18	51	20.0	-0.8	2	1921
2422980	14	49	48.74	0.6	1	-19	42	40.5	-0.1	1	1921
2422984						-19	32	4.4	0.2	1	1921
2423004	13	56	30.10	-0.4	1	-9	42	50.6	-1.1	1	1921
2423009	14	7	47.12	0.3	1	-10	25	10.3	-0.2	1	1921
2423018	14	49	30.85	-1.2	2	-14	22	17.6	1.4	2	1921
2423025	15	30	8.29	1.3	1	-17	53	46.1	-0.4	1	1921
2423039	16	59	53.77	0.4	1	-23	17	42.5	-0.2	1	1921
2423064	19	55	4.13	1.1	1	-22	58	41.0	-0.6	1	1922
2423068	20	23	10.69	0.8	1	-21	28	37.1	-0.8	1	1922
2423081	21	44	17.85	0.7	1	-14	12	19.6	-0.4	1	1922
2423086	22	4	1.78	0.3	2	-11	13	28.0	0.1	2	1922
2423089	22	9	39.83	-0.2	1	-9	49	19.3	-1.3	1	1922
2423119	21	21	4.77	-1.8	3	-14	53	20.8	-0.7	3	1922
2423123	21	33	19.97	-0.1	2	-14	43	40.0	0.0	2	1922
2423128	21	53	10.68	-0.6	3	-13	54	49.3	-0.1	3	1922
2423132	22	11	38.00	-0.7	2	-12	48	34.2	-0.4	2	1922
2423137	22	37	0.83	1.2	1	-10	54	17.1	-0.9	1	1922
2423156	0	30	1.03	-0.8	2	0	58	41.6	0.0	2	1922
2423165	1	33	40.41	0.4	2	8	37	23.2	-0.1	1	1922
2423177	3	10	26.05	-0.6	2	18	45	21.9	0.4	2	1922
2423183	3	59	16.37	-0.6	5	22	25	48.5	-0.1	5	1922
2423186	4	22	4.29	-0.6	3	23	42	48.1	-0.1	3	1922
2423191	4	56	13.04	-0.9	4	25	2	11.4	0.4	4	1922
2423196	5	24	23.44	-1.2	4	25	27	47.0	0.0	4	1922

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2423201	5	45	34.25	-2.5	3	25	10	28.4	0.4	3	1922
2423204	5	54	33.73	-1.4	2	24	44	0.3	-0.2	2	1922
2423238	5	27	52.43	-0.7	3	18	56	13.8	0.1	3	1922
2423242	5	34	1.53	-1.0	4	19	34	17.7	-0.9	4	1922
2423255	6	32	41.82	-0.6	4	22	15	10.6	0.4	4	1922
2423257	6	46	39.71	-0.8	1	22	28	41.2	0.5	1	1922
2423263	7	34	30.73	-0.9	4	22	19	46.8	0.1	4	1922
2423267	8	9	20.20	-0.7	1	21	23	12.1	-0.2	1	1922
2423284	10	25	37.27	1.0	2	11	25	46.4	0.9	2	1922
2423289	10	58	27.00	-0.6	2	7	41	35.0	0.2	2	1922
2423295	11	34	8.28	-0.1	1	3	11	38.5	0.2	1	1922
2423304	12	21	30.97	1.4	2	-3	14	4.1	0.0	2	1922
2423311	12	53	45.29	-0.4	2	-7	42	58.9	-0.2	2	1922
2423315	13	10	7.44	-0.5	2	-9	58	32.5	-0.6	2	1922
2423325	13	40	51.61	0.6	2	-14	7	29.9	0.0	2	1922
2423359	13	12	33.01	-0.1	3	-5	22	45.0	0.1	3	1922
2423364	13	35	44.84	0.6	2	-7	41	40.4	-0.4	2	1922
2423369	14	3	18.02	1.0	2	-10	35	54.5	0.6	2	1922
2423376	14	45	9.11	0.2	2	-14	47	36.0	0.6	2	1922
2423382	15	22	37.04	-0.6	4	-18	5	9.6	-0.4	4	1922
2423388	16	1	11.83	-2.0	2						1922
2423389						-21	18	8.1	-2.6	1	1922
2423432	20	51	18.39	-0.1	1	-18	27	51.7	-0.6	1	1923
2423466	20	10	24.86	1.1	1	-18	35	4.4	-0.6	1	1923
2423470	20	22	26.12	2.2	1	-18	43	45.8	0.3	1	1923
2423474	20	38	16.89	-1.2	1	-18	31	9.0	-0.4	1	1923
2423488	21	50	20.81	0.3	2	-14	59	8.8	0.3	2	1923
2423495	22	31	36.42	0.3	2	-11	37	53.9	-0.6	2	1923
2423499	22	56	13.48	-1.0	1	-9	15	35.5	-1.6	1	1923
2423507	23	47	49.69	-1.2	6	-3	34	16.7	-0.4	5	1923
2423511	0	15	1.96	-2.1	2	-0	17	32.7	-0.2	2	1923
2423514	0	36	10.14	-1.4	1	2	19	39.4	-1.1	1	1923
2423522	1	35	42.95	-1.3	1	9	42	16.5	-1.3	1	1923
2423529	2	29	48.28	0.4	4	15	50	41.5	1.0	4	1923
2423537	3	26	45.30	-0.7	1	21	4	33.6	-0.3	1	1923
2423542	3	55	45.40	-1.5	5	23	1	8.3	-0.6	5	1923
2423545	4	9	51.03	-1.2	4	23	42	1.3	-0.5	4	1923
2423597	4	42	55.10	-0.4	3	19	22	2.6	0.1	3	1923
2423600	4	58	20.78	0.1	2	20	21	19.0	0.2	2	1923
2423605	5	29	43.07	-1.0	3	21	57	8.0	0.5	3	1923
2423608	5	51	50.77	-1.5	5	22	44	55.9	0.3	5	1923
2423612	6	24	46.33	-1.0	1	23	26	21.8	0.2	1	1923
2423626	8	31	24.33	0.6	2	20	42	25.4	1.1	2	1923
2423638	10	3	8.92	-0.7	3	13	24	5.6	1.0	3	1923
2423641						11	17	55.9	2.1	2	1923
2423642	10	28	46.15	0.7	3						1923
2423647	10	57	50.42	-0.8	2	7	1	49.3	-1.1	2	1923
2423653	11	28	51.86	0.4	1	2	51	4.2	-0.3	1	1923
2423673	12	39	26.62	-0.1	1	-7	58	15.3	0.3	1	1923
2423677	12	44	8.31	0.5	1	-8	53	51.3	-0.4	1	1923
2423703	11	58	49.63	-0.3	4	1	11	3.9	-0.2	4	1923
2423706	12	6	42.57	0.6	2	0	56	26.1	-0.4	2	1923
2423717	13	1	16.51	-1.0	3	-4	24	25.5	-0.2	3	1923
2423720	13	19	9.83	-0.9	2	-6	24	57.9	-0.3	2	1923
2423725	13	49	43.36	-1.0	2	-9	49	29.5	0.5	2	1923

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2423733						-14	58	38.3	1.1	1	1923
2423761	17	42	53.65	0.7	1	-25	28	29.9	-0.7	1	1923
2423765	18	10	5.74	0.2	1	-25	39	45.2	-0.3	1	1923
2423770	18	43	29.20	0.3	2	-25	20	40.1	-1.7	2	1923
2423813	18	58	59.21	0.4	1	-20	33	47.9	-0.4	1	1924
2423837	20	51	51.08	-0.2	1	-19	4	44.8	-0.1	1	1924
2423847	21	53	52.75	-0.6	2	-14	59	54.8	-0.7	2	1924
2423851	22	19	37.06	-0.8	2	-12	45	35.2	0.3	2	1924
2423855	22	45	51.67	-1.5	3	-10	10	44.0	0.4	3	1924
2423858	23	5	54.51	-1.9	4	-8	1	24.8	-0.4	4	1924
2423862	23	33	11.25	-3.4	1	-4	52	9.0	1.0	1	1924
2423869	0	22	36.42	1.6	1	1	18	49.4	-0.4	1	1924
2423873	0	51	38.21	0.2	1	5	5	14.7	-1.7	1	1924
2423880	1	41	54.94	-0.9	2	11	31	43.1	0.6	2	1924
2423884	2	8	26.43	0.3	1	14	43	30.5	-0.2	1	1924
2423893	2	54	17.36	-1.9	3	19	33	14.4	0.4	3	1924
2423898	3	8	18.55	-0.5	2	20	36	24.1	-0.5	2	1924
2423933	2	49	16.37	-0.7	2	12	24	23.7	-0.4	2	1924
2423943	3	20	31.62	-1.0	2	14	56	25.8	0.0	2	1924
2423947	3	39	26.67	-0.6	1	16	33	25.0	-0.1	1	1924
2423954	4	21	20.96	-1.2	3	19	43	2.8	-0.5	3	1924
2423957	4	42	52.11	-0.1	1						1924
2423958						21	27	50.2	-0.3	2	1924
2423963	5	32	10.95	-1.7	3	23	14	27.5	0.2	3	1924
2423967	6	8	49.71	-0.7	1	24	5	5.0	-0.6	1	1924
2423978	7	51	46.79	0.8	3	22	46	24.4	0.0	3	1924
2423983	8	33	48.49	1.3	3	20	37	31.5	-0.4	3	1924
2423991	9	31	43.82	1.6	1	16	3	12.8	-0.3	1	1924
2423998						11	32	23.7	-1.0	2	1924
2423999	10	19	4.39	0.7	2						1924
2424002	10	34	22.72	-0.6	2	8	55	58.7	1.9	2	1924
2424006	10	52	47.18	-0.6	2	6	23	30.8	0.6	2	1924
2424013	11	19	12.79	-0.6	3	2	18	57.3	0.0	3	1924
2424018	11	32	50.43	-0.3	2	-0	5	48.2	1.4	2	1924
2424058	11	19	56.52	0.2	2	5	52	23.2	-0.5	2	1924
2424062	11	41	8.09	-0.4	2	4	2	3.0	0.6	2	1924
2424068	12	17	32.66	-1.0	4	0	10	46.5	0.4	4	1924
2424072	12	42	45.87	-1.3	5	-2	43	30.2	-0.1	5	1924
2424075	13	1	41.30	-0.2	4	-4	56	47.6	-0.7	4	1924
2424079	13	26	45.48	0.3	1	-7	52	25.2	-0.4	1	1924
2424109	16	34	49.10	0.6	2	-23	56	40.9	-1.1	2	1924
2424114	17	7	1.05	1.3	1	-25	7	36.9	-0.9	1	1924
2424122	17	57	6.30	2.1	2	-25	50	52.9	-1.2	2	1924
2424129	18	34	52.04	0.0	1	-25	14	43.4	-1.0	1	1924
2424156	17	46	54.43	-0.4	1	-20	17	33.2	-1.2	1	1925
2424165						-21	30	6.5	0.3	4	1925
2424173	18	36	10.51	0.5	1	-22	30	55.5	0.2	1	1925
2424187	19	58	14.88	0.2	1	-21	50	27.1	-0.7	1	1925
2424275	1	25	34.66	-2.2	1	6	34	15.7	-0.9	1	1925
2424279	1	31	27.51	-0.8	2	6	31	15.8	-0.1	2	1925
2424289	2	1	57.94	-0.8	2	8	52	50.3	0.0	2	1925
2424296	2	34	33.28	0.4	2	12	3	16.3	0.6	2	1925
2424298						13	6	43.9	-0.6	1	1925
2424299	2	51	10.50	0.5	2						1925
2424304	3	22	36.06	-0.2	2	16	30	51.6	-0.4	2	1925

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2424307	3	43	50.62	0.2	1	18	15	23.3	0.2	1	1925
2424312	4	23	26.35	0.3	3	21	0	22.2	-0.8	3	1925
2424316	4	58	41.75	-0.8	3	22	51	7.6	-0.3	3	1925
2424319	5	26	44.77	-1.6	1	23	53	32.1	-0.4	1	1925
2424329	7	1	36.91	-0.4	3	24	28	55.7	-0.8	1	1925
2424333	7	36	32.66	-1.1	4	23	30	52.1	0.1	4	1925
2424339	8	23	21.92	-0.8	1	21	8	33.6	-1.0	1	1925
2424340	8	30	29.37	-1.6	2	20	40	6.3	0.0	3	1925
2424347	9	15	4.80	0.1	1	16	57	37.4	-0.1	1	1925
2424350	9	31	27.33	-0.3	2	15	15	10.1	0.6	2	1925
2424357	10	3	25.42	-0.5	1	11	16	21.8	1.0	1	1925
2424362	10	20	38.84	-0.1	4	8	38	21.3	-0.4	4	1925
2424369	10	35	33.75	1.1	2	5	40	12.1	1.1	2	1925
2424398	9	52	6.20	0.2	2	11	20	48.6	-0.1	3	1925
2424406	10	14	38.34	0.3	5	11	36	59.4	-0.4	5	1925
2424411	10	42	7.60	-0.3	5	9	49	21.4	0.6	5	1925
2424414	11	1	10.93	0.4	2	8	10	1.7	0.6	2	1925
2424419	11	34	26.63	-1.1	2	4	46	58.6	0.4	2	1925
2424422	11	54	27.13	-0.9	1	2	32	14.1	-0.7	1	1925
2424440						-10	56	26.7	-0.2	1	1925
2424446	14	23	49.70	0.5	3	-14	49	55.4	0.2	3	1925
2424449						-16	36	24.9	0.2	2	1925
2424450	14	47	46.58	2.1	1						1925
2424454	15	11	44.64	0.6	4	-19	16	47.2	0.1	4	1925
2424460	15	47	45.00	1.5	3	-21	57	39.8	-0.2	3	1925
2424466	16	23	26.40	0.6	4	-23	59	11.1	-0.5	4	1925
2424469	16	40	49.62	1.2	2	-24	43	23.7	-0.3	2	1925
2424474	17	8	7.86	0.3	3	-25	30	1.5	-0.8	3	1925
2424479	17	31	10.56	0.9	1	-25	40	11.1	0.4	1	1925
2424488	17	46	45.19	0.4	2	-24	19	52.1	-0.2	2	1925
2424507	16	39	16.98	-0.1	3	-19	13	50.3	0.7	3	1925
2424514	16	55	23.75	0.2	3	-20	25	53.4	-0.5	4	1925
2424518	17	12	23.62	0.0	1	-21	22	46.9	-0.2	1	1926
2424526	17	55	13.61	-0.9	4	-22	58	49.2	-0.3	4	1926
2424530	18	19	18.47	-1.1	4						1926
2424535	18	50	55.73	0.1	4	-23	36	49.8	-0.4	4	1926
2424538	19	10	29.28	0.3	2	-23	28	10.1	-0.1	2	1926
2424544	19	50	31.36	0.5	2	-22	35	21.7	-0.4	3	1926
2424549	20	24	31.82	0.2	2	-21	13	27.2	-0.1	2	1926
2424552	20	45	7.59	0.0	1	-20	7	13.2	-0.5	1	1926
2424558	21	26	36.93	0.0	1	-17	15	30.8	-0.4	1	1926
2424571	22	56	53.06	1.5	3	-8	8	41.5	0.1	3	1926
2424574	23	17	17.63	0.6	1	-5	34	14.4	-1.1	1	1926
2424579	23	49	42.92	-0.6	2	-1	7	40.0	-0.3	2	1926
2424583	0	12	47.11	0.7	2	2	17	57.9	0.0	2	1926
2424586	0	27	17.68	-0.6	3	4	35	46.0	-0.8	3	1926
2424591	0	43	56.88	0.9	3	7	30	24.2	-0.7	3	1926
2424621	0	11	11.53	-0.9	3	0	16	0.7	-0.6	3	1926
2424626	0	18	54.06	0.2	2	0	2	32.6	-1.0	2	1926
2424631	0	32	30.42	-0.3	2	0	46	47.1	0.1	2	1926
2424633	0	39	18.98	-0.2	2	1	18	28.5	-0.5	2	1926
2424639	1	3	39.68	-0.4	2	3	33	50.6	-1.1	2	1926
2424642	1	17	48.68	0.5	4	5	0	54.8	-0.1	4	1926
2424647	1	44	8.31	-0.2	1						1926
2424648	1	49	49.13	0.3	2	8	25	35.7	-0.5	2	1926

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	H	M	S	"		°	'	"	"		
2424654	2	26	59.38	1.1	3	12	20	5.9	0.3	4	1926
2424656	2	40	38.62	-0.6	2	13	42	13.6	-0.8	2	1926
2424662	3	25	50.68	-1.6	2	17	49	18.6	0.3	3	1926
2424665	3	50	54.93	-0.7	1	19	46	8.5	0.2	1	1926
2424677	5	42	6.59	-1.2	2						1926
2424678						25	2	38.9	0.0	1	1926
2424682	6	27	43.29	0.1	3	25	11	46.1	-0.2	3	1926
2424691	7	39	12.62	-0.7	2	23	20	58.8	-0.1	2	1926
2424697	8	17	40.90	0.0	6	21	0	45.6	-1.1	6	1926
2424705	8	57	8.28	-1.0	4	17	19	17.0	-0.7	4	1926
2424709	9	11	34.38	-0.9	3	15	28	1.0	0.5	3	1926
2424713	9	22	8.83	-0.5	3	13	44	53.7	-0.2	4	1926
2424755	9	11	13.42	-0.9	5	16	14	31.4	-0.3	5	1926
2424760	9	40	31.65	-0.5	4	14	59	40.6	-0.4	4	1926
2424763	10	0	58.74	-1.4	1	13	39	28.2	0.6	1	1926
2424769	10	44	5.70	-0.4	4	9	57	43.0	-0.4	4	1926
2424774	11	19	29.17	-0.4	3	6	15	4.9	-0.6	3	1926
2424790						-6	10	6.3	0.3	1	1926
2424796	13	36	53.67	0.4	4	-10	25	28.7	-0.9	4	1926
2424800	13	59	49.63	0.8	1	-13	3	6.0	-0.8	1	1926
2424804	14	22	28.20	0.1	2	-15	29	1.9	-0.9	2	1926
2424810	14	55	55.85	0.3	3	-18	42	57.1	-0.8	3	1926
2424815	15	23	7.65	0.3	5	-20	58	11.6	-0.2	4	1926
2424824	16	7	57.20	0.8	1	-23	47	27.4	-0.3	2	1926
2424830	16	30	11.18	0.3	4	-24	32	50.6	0.5	3	1926
2424832						-24	32	40.6	0.0	1	1926
2424835	16	38	8.41	1.2	1	-24	14	52.8	1.7	1	1926
2424838						-23	32	33.2	-0.5	2	1926
2424852	15	37	5.79	1.4	1	-16	53	21.8	0.0	2	1926
2424857	15	35	26.00	0.6	4	-16	31	35.3	0.1	4	1926
2424866	16	4	46.32	0.2	5	-18	47	36.3	-0.4	5	1926
2424868	16	14	29.83	0.5	1	-19	28	31.1	-0.9	2	1926
2424872						-20	49	5.7	-0.1	2	1926
2424879	17	17	38.60	-0.1	4	-22	47	58.8	-0.8	5	1926
2424888	18	16	5.01	0.2	4	-24	10	3.8	0.0	4	1927
2424893	18	50	0.12	-0.6	4	-24	12	50.9	-0.2	6	1927
2424899						-23	31	8.7	-0.9	1	1927
2424903						-22	34	29.2	0.0	2	1927
2424907						-21	13	55.0	0.4	3	1927
2424913	21	10	11.64	0.6	2	-18	27	20.6	0.4	2	1927
2424920	21	59	0.57	0.6	2	-14	5	8.3	-0.5	2	1927
2424923	22	19	21.07	1.7	1	-11	52	48.6	0.8	1	1927
2424937	23	35	36.54	-0.3	3	-1	5	28.5	0.1	3	1927
2424940	23	43	17.09	0.6	1	0	32	6.7	-0.8	1	1927
2424942	23	45	46.81	0.1	2	1	18	7.7	-0.4	2	1927
2424967	22	59	53.27	0.2	2	-5	49	58.5	0.6	2	1927
2424971	23	4	31.81	0.2	2	-6	20	49.7	-0.4	2	1927
2424979	23	26	17.92	0.4	4	-5	34	9.2	0.2	4	1927
2424984	23	45	55.43	0.5	4	-4	3	39.8	0.1	4	1927
2424990	0	13	48.81	0.1	3	-1	24	42.9	-0.3	3	1927
2424995	0	40	5.53	0.1	2	1	23	7.4	-0.3	2	1927
2424999	1	3	1.18	2.1	3	3	56	58.6	-0.6	3	1927
2425004	1	34	12.90	-0.2	5	7	29	24.7	0.1	6	1927
2425008	2	1	27.46	-0.3	4	10	31	20.5	0.4	4	1927
2425012						13	38	40.6	0.2	1	1927

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2425029	4	59	14.34	-0.8	2	24	17	14.8	0.3	2	1927
2425034	5	42	59.49	0.0	3	25	23	14.5	-0.7	3	1927
2425040	6	30	4.99	-0.1	5	25	22	0.8	-0.7	6	1927
2425044	6	57	18.76	-1.4	2	24	42	48.8	-0.1	2	1927
2425048	7	20	52.61	-1.3	3	23	41	36.8	-0.5	3	1927
2425054	7	48	54.49	-1.0	6	21	44	10.5	-0.9	6	1927
2425058	8	2	22.58	-0.8	2	20	18	38.8	-1.1	2	1927
2425066						17	40	23.9	-0.6	1	1927
2425100	7	46	32.37	-0.2	3	19	26	6.9	-0.1	3	1927
2425104						19	39	49.1	-0.6	3	1927
2425105	8	10	12.93	-0.1	4						1927
2425110	8	42	45.06	-0.1	6	18	51	58.0	0.0	6	1927
2425113	9	5	4.14	-0.2	2	17	51	47.7	0.0	2	1927
2425117	9	36	14.11	1.5	1						1927
2425123	10	22	32.52	0.1	1	12	2	55.2	0.3	1	1927
2425130	11	12	35.53	0.4	2	6	44	33.9	-0.1	2	1927
2425137	11	57	53.34	0.1	2	1	14	18.6	-0.2	2	1927
2425145	12	45	11.86	0.2	5	- 4	49	43.1	-0.6	5	1927
2425150	13	13	2.40	0.6	4	- 8	22	20.3	-0.7	4	1927
2425156	13	45	5.92	-0.5	2	-12	17	3.2	0.4	2	1927
2425160	14	5	40.63	0.3	2	-14	38	42.2	-0.9	2	1927
2425166	14	35	0.70	0.7	3	-17	44	7.3	0.1	3	1927
2425170	14	53	0.88	0.6	2	-19	26	1.7	-0.7	2	1927
2425175	15	12	28.90	0.0	3	-21	2	27.8	-0.9	3	1927
2425180	15	26	5.58	-0.2	4	-21	53	35.5	-1.2	4	1927
2425182	15	29	0.56	0.7	1	-21	57	22.9	-0.8	1	1927
2425202	14	32	18.85	0.4	3	-12	53	14.3	-0.2	3	1927
2425203	14	31	29.35	0.9	2						1927
2425208	14	37	7.59	0.6	2	-12	45	18.3	-0.6	3	1927
2425212	14	50	30.34	-0.2	2	-13	54	35.8	0.4	2	1927
2425216	15	8	42.34	-0.1	3	-15	32	16.7	-0.4	3	1927
2425221	15	35	29.05	-0.5	4	-17	46	39.3	0.0	4	1927
2425225	15	58	54.46	-0.6	3	-19	30	47.7	0.0	3	1927
2425229	16	23	32.26	0.0	2	-21	5	4.0	-0.7	2	1927
2425233	16	49	5.55	-0.3	3	-22	25	32.0	-0.4	3	1927
2425237	17	15	24.32	0.1	2						1927
2425238	17	22	5.23	-0.1	2	-23	42	41.4	0.0	2	1927
2425243	17	56	2.57	0.4	1	-24	30	16.7	-0.9	1	1927
2425250	18	44	49.14	-2.3	1	-24	41	29.0	1.5	1	1928
2425257	19	34	31.44	0.6	1	-23	42	16.5	-0.5	1	1928
2425262						-22	14	4.0	-0.4	2	1928
2425264	20	24	23.80	0.6	2	-21	27	49.3	-0.4	1	1928
2425268	20	52	32.13	0.7	2						1928
2425269						-19	5	5.9	-0.3	5	1928
2425272	21	19	57.51	-0.3	3						1928
2425277	21	52	11.97	0.7	3	-14	5	46.2	-0.2	3	1928
2425281	22	14	55.09	-0.3	4	-11	17	8.5	-0.4	4	1928
2425290	22	44	47.10	2.0	1	- 5	57	54.9	0.5	1	1928
2425310	21	53	26.75	1.4	2	-10	8	14.2	-0.5	2	1928
2425314	21	51	1.66	0.3	3	-11	20	25.0	-0.6	5	1928
2425314	21	51	1.66	0.3	2						1928
2425320	21	59	2.90	-1.1	2	-12	4	10.4	0.5	3	1928
2425328	22	24	52.55	-0.1	5	-11	12	12.0	-0.6	5	1928
2425330						-10	42	0.6	0.5	1	1928
2425337	23	5	56.83	-0.8	1	- 8	9	20.5	-0.2	1	1928

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2425343	23	37	45.17	0.9	2	- 5	6	3.8	0.8	2	1928
2425349	0	12	26.47	0.4	2	- 1	20	11.8	0.3	3	1928
2425355	0	50	9.12	-0.1	5	3	2	48.2	-0.2	5	1928
2425358	1	10	18.65	1.2	3	5	25	59.5	0.3	3	1928
2425361	1	31	27.73	0.6	3	7	55	9.1	0.8	3	1928
2425365	2	1	21.54	-0.6	1	11	19	37.2	1.4	1	1928
2425376	3	32	46.94	0.2	3	20	5	3.5	-0.6	3	1928
2425381	4	15	45.80	-0.6	3	22	57	22.2	0.4	4	1928
2425387	5	3	57.52	-0.9	2	25	0	48.1	-0.5	2	1928
2425392	5	39	4.44	0.2	2	25	37	49.3	1.4	2	1928
2425397	6	8	20.11	-0.3	4	25	26	35.4	-0.4	4	1928
2425401	6	26	58.63	-0.3	2	24	51	33.0	-0.5	2	1928
2425405	6	40	58.57	0.9	1	24	0	17.6	-0.2	1	1928
2425440	6	14	21.10	0.4	2	19	14	40.9	-0.6	2	1928
2425445	6	22	24.59	0.6	3	20	8	23.0	-0.5	4	1928
2425452						21	23	11.6	-0.5	6	1928
2425453	6	55	31.97	-0.4	5						1928
2425456	7	13	58.57	0.4	2	21	44	57.5	0.3	2	1928
2425459	7	35	11.78	-0.2	6	21	41	57.4	-0.2	6	1928
2425463	8	6	45.22	-1.3	3	21	4	22.6	0.2	5	1928
2425467	8	40	18.39	-0.8	3	19	44	47.6	-0.8	3	1928
2425472	9	22	11.47	-1.6	1	17	11	56.9	0.4	1	1928
2425481	10	31	6.64	0.0	5	11	1	48.2	0.7	5	1928
2425487	11	11	24.09	0.5	2	6	27	6.2	0.0	2	1928
2425493	11	47	53.84	1.3	4	1	51	25.8	0.4	4	1928
2425496	12	4	58.75	1.3	2	- 0	23	22.0	0.6	2	1928
2425501	12	31	59.70	0.6	4	- 4	0	12.0	-1.1	4	1928
2425504	12	47	24.63	0.1	2	- 6	4	13.4	0.4	2	1928
2425511	13	21	5.28	0.1	4	-10	30	37.2	-0.3	4	1928
2425516	13	42	49.68	-0.3	4	-13	15	38.3	0.0	4	1928
2425525	14	13	53.30	-0.4	3	-16	54	32.3	-0.8	3	1928
2425530	14	23	4.77	-0.3	5	-17	49	35.0	-0.5	5	1928
2425534	14	23	27.19	0.0	2	-17	39	43.2	-0.1	2	1928
2425551	13	31	13.80	1.5	1	- 8	11	20.7	-1.3	1	1928
2425557	13	37	2.44	0.7	5	- 7	46	30.6	0.6	6	1928
2425562	13	55	23.79	0.5	3	- 9	24	49.5	-0.1	4	1928
2425565	14	9	50.22	0.5	3	-10	51	19.7	0.6	4	1928
2425572	14	48	41.38	1.3	2	-14	39	45.9	-0.2	3	1928
2425578	15	25	3.05	0.3	4	-17	50	21.9	-0.6	4	1928
2425582	15	50	14.86	0.1	3	-19	44	31.7	-1.4	3	1928
2425586	16	16	4.46	0.3	4	-21	24	38.0	-1.0	5	1928
2425590	16	42	28.89	-0.6	2	-22	48	28.3	0.1	2	1928
2425615	19	36	53.83	0.1	3	-23	45	27.5	-0.1	4	1929
2425619	20	4	50.02	0.2	4	-22	28	22.0	-0.9	5	1929
2425623	20	31	49.65	0.9	2	-20	47	10.3	-0.5	2	1929
2425628	21	2	53.82	0.2	2						1929
2425630	21	13	56.18	1.6	1						1929
2425635	21	35	40.80	-0.4	4						1929
2425640	21	44	34.99	0.0	3	-12	2	31.3	0.1	3	1929
2425642	21	43	25.12	0.0	1	-11	31	22.6	0.8	1	1929
2425659	20	44	29.69	0.2	3	-15	8	8.9	0.0	3	1929
2425662	20	42	51.32	0.3	2	-15	52	33.4	1.5	2	1929
2425667	20	49	4.25	1.2	3	-16	34	31.9	1.0	3	1929
2425671	21	0	10.20	-0.8	1	-16	38	58.4	-0.3	1	1929
2425673	21	7	13.95	-0.1	3	-16	31	47.1	0.7	5	1929

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	H	M	S	"		°	'	"	
2425678	21	28	7.47	-1.0	4	-15	47	37.6	0.3 5 1929
2425683	21	52	21.78	-0.4	4	-14	27	43.9	0.8 4 1929
2425690	22	30	0.13	1.0	5	-11	39	28.8	0.8 7 1929
2425694	22	52	57.19	0.7	1	-9	35	20.8	0.0 1 1929
2425699	23	22	55.91	0.5	4	-6	33	1.0	0.4 6 1929
2425705	0	0	53.31	0.0	2	-2	16	42.8	0.5 4 1929
2425710	0	34	27.40	0.2	5	1	45	2.9	0.4 7 1929
2425714	1	2	49.27	-0.6	2	5	13	28.2	-0.4 2 1929
2425722	2	3	54.26	0.6	3	12	27	39.1	0.5 3 1929
2425726	2	36	4.33	0.0	4	15	54	20.2	-0.3 5 1929
2425731	3	16	7.09	-0.1	3	19	38	6.4	-0.3 5 1929
2425735	3	46	30.18	-2.1	1	21	57	19.3	3.4 1 1929
2425741	4	26	41.82	-0.3	3	24	11	43.6	-0.1 5 1929
2425747	4	58	0.66	-0.2	2	25	4	12.9	-0.5 2 1929
2425752	5	15	53.74	-0.9	1	24	56	19.7	-0.7 1 1929
2425791	5	0	21.63	-0.4	2	18	50	4.8	0.2 2 1929
2425796	5	15	56.30	-0.6	4	19	58	36.8	-0.4 5 1929
2425801	5	39	34.23	-0.4	6	21	17	52.9	-0.4 7 1929
2425807	6	18	11.37	1.2	2	22	37	35.4	0.8 2 1929
2425810	6	41	18.03	0.3	9	22	59	1.2	-0.4 5 1929
2425810						22	59	1.2	-0.4 5 1929
2425815	7	23	57.00	0.3	6	22	50	32.3	-0.3 6 1929
2425819	7	59	52.08	-0.7	5	21	56	41.3	-0.2 5 1929
2425828	9	17	19.53	0.1	2	17	38	33.3	-0.9 2 1929
2425832	9	48	10.59	-0.5	3	15	2	54.9	0.7 3 1929
2425838	10	29	56.47	-0.8	2	10	47	11.9	0.6 4 1929
2425840	10	42	45.90	0.0	1	9	19	5.5	-0.8 2 1929
2425845	11	12	43.47	-0.2	3	5	37	56.3	0.5 4 1929
2425852	11	50	16.55	0.3	2	0	36	0.1	0.9 2 1929
2425858	12	18	47.86	0.3	2	-3	25	53.5	0.0 3 1929
2425864	12	43	45.13	0.8	1	-7	2	29.7	-1.0 2 1929
2425868	12	57	56.36	-0.4	1	-9	6	56.6	0.7 1 1929
2425874	13	14	2.00	-0.4	3	-11	30	17.2	-0.1 4 1929
2425880	13	20	44.34	0.2	2	-12	34	37.6	-0.3 4 1929
2425885	13	15	56.00	0.0	1	-11	55	15.9	-0.6 1 1929
2425903	12	31	56.64	0.4	5	-2	9	11.4	-0.5 7 1929
2425908	12	44	40.59	0.0	4	-2	41	58.4	-1.0 4 1929
2425911	12	57	20.91	0.3	4	-3	51	12.4	-0.3 5 1929
2425914	13	12	21.84	1.1	1	-5	23	52.4	-0.5 1 1929
2425919	13	40	22.17	0.2	4	-8	25	42.1	-0.1 5 1929
2425924	14	10	14.50	-0.4	3	-11	37	29.7	0.1 3 1929
2425928	14	34	48.83	0.1	4	-14	6	48.3	-0.5 4 1929
2425933	15	6	6.08	0.8	3	-17	0	25.3	-0.7 3 1929
2425937	15	31	33.78	0.0	1	-19	5	18.9	0.3 1 1929
2425952	17	10	55.04	0.7	2	-24	29	21.9	0.1 2 1929
2425964	18	33	59.98	1.3	3	-25	24	20.9	0.6 3 1929
2425968	19	1	33.45	0.5	2	-24	55	38.3	-0.5 3 1929
2425973	19	34	48.61	-0.9	1	-23	45	38.6	0.2 2 1929
2425976	19	53	28.55	0.6	1	-22	46	38.4	0.5 1 1929
2425981	20	20	27.50	-0.4	4	-20	46	40.7	-1.0 4 1930
2425986	20	38	12.70	-0.1	2	-18	38	43.9	-0.4 3 1930
2426007	19	36	58.92	0.2	2	-18	19	54.5	0.7 2 1930
2426013	19	36	38.80	0.3	5	-19	23	22.2	0.1 5 1930
2426019	19	52	4.35	0.2	5	-19	54	32.0	0.8 6 1930
2426025	20	16	56.96	-0.2	4	-19	44	36.0	0.5 4 1930

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	H	M	S	"		°	'	"	"		
2426029	20	36	44.07	0.2	5	-19	13	6.5	0.4	6	1930
2426034	21	3	45.90	0.3	3	-18	4	53.3	0.7	5	1930
2426038	21	26	40.60	0.3	2	-16	47	5.2	0.1	4	1930
2426043	21	56	28.69	-0.1	3	-14	40	55.0	-0.1	6	1930
2426050	22	39	56.30	1.0	6	-10	51	3.3	0.1	7	1930
2426055	23	12	11.54	0.6	5	-7	29	46.1	0.5	6	1930
2426058	23	32	5.65	0.2	4	-5	14	45.0	-0.2	4	1930
2426064	0	13	21.61	-0.7	1	-0	15	21.9	-0.1	1	1930
2426067	0	34	48.38	-0.5	3						1930
2426073	1	19	12.03	0.0	2	8	3	49.5	-0.3	2	1930
2426077	1	49	19.97	0.6	3	11	45	6.7	-0.2	5	1930
2426082	2	25	58.86	-0.7	3	15	55	3.2	-1.0	3	1930
2426092	3	26	36.45	-1.4	4	21	30	1.2	-0.5	4	1930
2426097	3	46	34.61	-0.1	3	22	42	4.8	-0.9	3	1930
2426100	3	54	28.80	-0.6	1	22	55	54.7	-0.2	1	1930
2426131	3	30	5.54	-1.3	2	14	59	5.3	-0.6	2	1930
2426140						16	2	41.5	-0.6	2	1930
2426142	3	53	10.95	0.4	1						1930
2426147	4	14	17.41	0.2	2	18	14	39.6	0.0	3	1930
2426152	4	41	51.83	-0.9	4	20	8	25.7	-0.7	4	1930
2426156	5	8	37.85	0.0	6	21	37	27.0	-0.4	9	1930
2426161	5	47	48.18	-0.5	4	23	7	44.6	-0.6	4	1930
2426166	6	32	10.43	0.1	3	23	52	9.8	-0.7	5	1930
2426170	7	9	36.83	-0.2	1	23	41	52.4	0.2	1	1930
2426180	8	39	13.91	0.0	2	20	17	36.8	-0.3	3	1930
2426188	9	39	45.81	-0.2	7	15	33	9.4	0.0	7	1930
2426195	10	24	15.66	-1.4	2	10	49	0.7	0.0	3	1930
2426199	10	46	36.49	-0.7	2	8	3	26.8	-0.1	2	1930
2426202	11	2	1.75	0.8	3	6	0	46.2	0.5	5	1930
2426210	11	37	40.33	0.9	1	0	51	41.5	-0.4	1	1930
2426217	12	1	35.12	0.3	5	-2	58	17.8	0.4	5	1930
2426221	12	11	18.39	-0.7	3	-4	41	27.5	0.8	3	1930
2426231	12	16	46.22	-0.9	1	-6	20	51.7	0.5	1	1930
2426252	11	32	23.63	0.6	3	3	26	59.0	-0.7	4	1930
2426256	11	42	23.11	-0.4	3	3	19	43.4	0.2	5	1930
2426260	11	59	28.05	0.0	3	2	1	45.3	-0.2	4	1930
2426266	12	32	31.84	0.4	6	-1	21	1.8	0.0	6	1930
2426270	12	56	42.74	-0.2	6	-4	4	31.9	0.3	7	1930
2426273	13	15	13.44	-0.3	4	-6	12	0.2	0.0	4	1930
2426295	15	32	52.74	-0.7	1	-19	51	30.2	-0.2	1	1930
2426299	15	58	35.63	0.6	1	-21	38	7.9	0.2	1	1930
2426306	16	44	25.83	0.1	2	-24	2	41.6	0.6	2	1930
2426309	17	4	20.92	-0.9	1	-24	46	39.0	-0.5	1	1930
2426314	17	37	40.68	-0.6	4	-25	33	32.3	-0.2	7	1930
2426320	18	17	4.58	0.5	3	-25	43	21.3	0.3	3	1930
2426323	18	35	57.17	-0.3	2	-25	28	35.7	0.7	2	1930
2426329	19	9	44.39	0.3	5	-24	21	46.9	0.2	5	1930
2426333	19	26	41.18	-0.4	1	-23	15	19.5	0.6	1	1930
2426341	19	33	6.80	-3.1	1	-20	55	52.5	-0.6	1	1930
2426353						-19	49	48.0	1.2	4	1931
2426356	18	27	53.25	0.1	1	-20	3	53.2	-0.5	3	1931
2426356						-20	3	52.7	0.3	2	1931
2426359	18	25	50.43	0.0	1	-20	25	34.6	0.0	2	1931
2426364	18	33	28.87	1.2	3	-21	7	23.1	-1.1	3	1931
2426370	18	54	54.17	-0.3	5	-21	46	21.1	-0.4	6	1931

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2426373	19	8	46.99	-0.1	3	-21	55	26.9	0.6	3	1931
2426378	19	34	54.08	-0.3	4	-21	50	10.2	0.0	5	1931
2426382	19	57	39.54	0.0	4	-21	25	13.9	0.0	5	1931
2426385	20	15	29.05	0.8	4	-20	53	35.7	0.2	6	1931
2426390	20	46	13.23	0.2	4	-19	35	17.3	0.6	4	1931
2426396	21	24	18.44	0.7	4	-17	18	8.3	-0.3	4	1931
2426399	21	43	43.68	0.0	7	-15	51	41.4	-0.2	5	1931
2426399						-15	51	41.4	-0.2	6	1931
2426405	22	23	15.26	0.9	6	-12	23	1.8	0.3	6	1931
2426421	0	13	51.03	-1.2	2	0	30	11.3	-0.6	2	1931
2426425	0	42	24.29	-0.7	2	4	16	53.5	-1.1	2	1931
2426432						10	38	18.7	-0.1	3	1931
2426441	2	18	38.23	-0.5	3	16	36	53.0	-0.4	3	1931
2426447	2	36	9.13	-0.8	3	18	27	22.3	0.6	5	1931
2426477	2	9	52.16	-1.8	1	10	3	25.3	-0.4	1	1931
2426484	2	21	29.55	-1.0	1	10	23	6.2	-0.9	1	1931
2426489	2	36	52.40	-1.2	5	11	38	6.8	-0.6	7	1931
2426493	2	52	59.52	-0.8	3	13	5	55.0	0.2	3	1931
2426497	3	12	22.07	0.0	2	14	51	51.0	-0.9	2	1931
2426503	3	47	38.57	-0.1	2	17	50	47.6	-0.6	2	1931
2426506	4	8	12.97	-0.7	4	19	22	31.0	-0.6	5	1931
2426511	4	47	1.48	-0.2	5	21	45	1.7	-0.1	8	1931
2426516	5	31	3.38	-1.1	3	23	34	32.0	-0.1	3	1931
2426519	5	59	16.67	-1.9	1	24	14	26.6	-0.5	1	1931
2426527	7	15	19.84	-1.2	2	24	1	19.4	0.7	2	1931
2426531	7	50	56.34	0.1	1	22	52	52.7	-0.4	1	1931
2426537	8	39	3.85	-0.2	3	20	14	5.7	-0.2	5	1931
2426540	9	0	36.71	0.2	1	18	37	13.2	-1.2	1	1931
2426545	9	32	56.99	-1.3	3	15	40	33.4	0.4	6	1931
2426551	10	6	15.02	-1.0	5	11	57	14.8	0.3	7	1931
2426555						9	29	9.8	0.2	2	1931
2426564	10	58	26.86	-0.7	2	4	24	57.4	0.2	2	1931
2426572	11	14	15.95	0.9	3	1	10	41.2	0.7	3	1931
2426578	11	14	34.83	1.1	2	0	13	50.9	0.0	2	1931
2426606	10	46	21.36	0.7	2	8	44	17.6	-0.5	3	1931
2426610	11	5	55.40	1.1	1	7	25	30.2	-0.1	1	1931
2426614	11	29	27.74	-0.8	2	5	17	30.9	-0.1	3	1931
2426618	11	54	48.40	-0.1	2	2	37	49.8	0.1	3	1931
2426623	12	27	2.68	-0.3	4	-1	3	35.7	0.0	5	1931
2426627	12	52	34.74	-0.4	1	-4	5	30.3	-0.1	1	1931
2426637	13	54	49.05	0.4	1	-11	19	36.9	-0.9	1	1931
2426642	14	25	26.46	0.2	3	-14	34	40.7	-0.2	3	1931
2426645	14	43	48.31	-0.3	2	-16	22	40.5	-0.4	3	1931
2426651	15	20	43.29	0.1	6	-19	35	36.0	0.0	5	1931
2426651						-19	35	36.0	0.0	5	1931
2426655	15	45	32.97	-0.3	5	-21	25	18.2	-0.2	5	1931
2426658	16	4	16.86	-0.6	4	-22	36	37.1	0.6	4	1931
2426663	16	35	34.50	-0.3	2	-24	12	42.1	0.6	2	1931
2426668	17	6	31.51	0.5	3	-25	17	40.1	0.0	3	1931
2426672	17	30	23.19	0.6	4	-25	45	19.7	0.7	4	1931
2426679	18	6	57.61	-0.4	2						1931
2426684	18	24	10.82	0.1	4	-24	54	8.6	-0.1	4	1931
2426688	18	27	53.36	0.3	2	-23	58	19.1	-0.6	2	1931
2426706	17	18	21.03	0.3	1	-20	1	57.5	-0.7	1	1931
2426712	17	24	17.40	0.5	2	-20	43	40.4	-1.4	2	1932

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	H	M	S	"		°	'	"	"		
2426718	17	45	41.27	0.1	4						1932
2426721	17	59	50.27	-0.3	3						1932
2426726	18	26	36.59	0.1	4	-22	56	16.6	-0.7	6	1932
2426732	19	2	10.75	-0.1	3	-23	7	2.5	-0.3	4	1932
2426735						-22	56	47.0	0.0	4	1932
2426736	19	27	14.33	0.5	3						1932
2426740	19	53	1.36	-0.3	3	-22	14	24.8	0.0	4	1932
2426743	20	12	42.75	0.9	1	-21	33	10.0	-0.2	2	1932
2426748	20	46	0.71	0.8	3	-19	57	9.4	0.1	3	1932
2426752	21	12	58.94	-0.4	3	-18	15	20.2	-0.3	3	1932
2426756	21	40	11.60	0.3	3	-16	10	59.9	0.3	3	1932
2426761	22	14	31.02	1.8	1	-13	3	57.2	1.0	1	1932
2426771	23	23	56.25	0.6	4	-5	11	25.7	-0.1	4	1932
2426775	23	51	28.72	0.6	6	-1	34	37.4	-0.2	6	1932
2426781	0	30	31.76	0.2	3	3	53	42.0	-0.3	3	1932
2426783	0	42	18.18	-0.5	2	5	36	34.8	-0.8	2	1932
2426790	1	14	36.61	0.4	3	10	29	2.1	-0.9	3	1932
2426792	1	20	31.75	-1.0	1	11	25	43.3	-0.4	2	1932
2426796	1	27	11.18	0.5	1	12	34	47.9	-0.5	2	1932
2426827	0	58	33.93	-1.3	4	3	47	35.8	0.0	6	1932
2426831	1	7	43.76	-1.0	4	4	11	45.9	-0.2	5	1932
2426834	1	16	50.22	-1.6	1	4	52	0.1	0.8	1	1932
2426843	1	53	48.11	-0.5	2	8	22	36.6	-0.1	5	1932
2426846	2	9	2.09	-0.6	5	9	56	0.5	0.1	7	1932
2426853	2	50	16.73	-0.2	2	14	2	56.5	0.0	5	1932
2426855	3	3	37.92	-0.3	3	15	18	0.0	0.1	5	1932
2426860	3	40	22.00	-2.2	2	18	25	44.5	-0.1	5	1932
2426865	4	22	2.45	-1.1	3	21	18	41.5	0.1	5	1932
2426867	4	39	59.07	-0.3	1	22	18	34.0	-1.0	1	1932
2426883	7	9	2.36	-0.4	1	24	25	45.1	0.3	2	1932
2426888	7	49	29.30	-1.6	1	22	58	12.1	-0.4	2	1932
2426891	8	11	23.81	-1.0	3	21	46	34.9	0.2	4	1932
2426896						19	25	51.5	0.2	3	1932
2426897	8	49	51.50	-1.0	1						1932
2426898	8	55	35.16	-0.5	1	18	24	35.7	-0.2	1	1932
2426903	9	21	19.67	-1.1	3	15	45	45.0	-0.3	3	1932
2426908	9	42	10.66	-0.4	3	13	7	40.0	-0.4	3	1932
2426917	10	6	4.05	-1.4	1	9	2	1.9	1.0	2	1932
2426950	9	27	47.65	0.0	1	13	44	1.1	-0.6	1	1932
2426953	9	36	15.35	-0.1	2	13	56	47.2	-0.5	2	1932
2426959	10	5	11.91	0.0	4	12	50	34.3	-0.6	6	1932
2426962	10	23	49.54	-0.7	2	11	33	40.3	0.5	3	1932
2426966	10	50	43.40	-0.9	2	9	15	15.9	0.2	3	1932
2426971	11	25	11.09	-0.8	2	5	44	7.4	0.7	2	1932
2426975	11	52	14.09	-1.1	1	2	39	47.1	0.1	1	1932
2426984	12	50	3.12	0.7	1	-4	21	0.2	-0.7	1	1932
2426989	13	20	36.57	0.5	3						1932
2426990						-8	46	47.2	0.0	2	1932
2426992	13	38	35.14	0.7	1	-10	11	0.2	-0.1	1	1932
2426999	14	19	54.97	0.6	3	-14	44	42.1	-0.2	3	1932
2427003	14	43	20.20	0.2	3	-17	4	26.7	-0.6	3	1932
2427008	15	12	30.52	-0.1	4	-19	39	34.7	1.0	4	1932
2427014	15	47	11.68	0.6	4	-22	13	14.5	0.2	6	1932
2427021	16	26	2.32	-0.4	4	-24	20	6.9	0.3	5	1932
2427025	16	46	11.58	0.7	3	-25	3	17.4	0.7	4	1932

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2427028	16	59	23.28	0.1	4	-25	19	55.0	-0.5	5	1932
2427033	17	15	1.66	0.4	1	-25	14	6.6	0.3	1	1932
2427045						-21	32	59.3	0.3	3	1932
2427055	16	11	53.07	0.2	2	-18	14	8.1	-0.6	2	1932
2427062	16	21	59.88	-0.3	5	-19	2	56.3	0.1	5	1932
2427066	16	37	14.13	0.6	1	-20	5	29.9	-0.7	1	1932
2427071	17	1	41.27	-0.3	5	-21	28	27.2	-0.4	5	1932
2427078	17	41	51.43	0.1	4	-23	3	14.8	-0.4	5	1933
2427078						-23	3	14.5	0.2	3	1933
2427082						-23	37	27.0	-0.3	2	1933
2427083	18	13	6.68	0.1	4	-23	43	15.7	0.6	4	1933
2427089	18	52	23.20	0.8	4	-23	52	55.3	0.7	5	1933
2427092	19	12	32.30	0.3	2	-23	40	28.6	0.2	3	1933
2427097	19	46	39.47	0.4	2	-22	52	27.5	1.0	2	1933
2427102	20	21	14.15	0.0	2	-21	28	59.5	-0.2	2	1933
2427120	22	26	43.29	1.0	1	-11	24	59.8	0.4	1	1933
2427126	23	7	5.99	-0.6	2	-6	30	12.8	-0.5	3	1933
2427129	23	26	2.86	-0.5	1	-3	55	1.9	-0.3	3	1933
2427132	23	43	26.75	-0.3	1	-1	22	12.2	-2.0	1	1933
2427133	23	48	46.41	-0.8	1	-0	33	2.7	0.6	1	1933
2427140	0	16	19.70	0.0	2	4	11	17.1	-0.4	4	1933
2427142						5	3	50.3	0.1	1	1933
2427147						5	59	39.1	-0.8	1	1933
2427154						4	15	1.7	1.1	1	1933
2427160	23	48	48.96	0.2	3	1	11	0.5	-0.1	3	1933
2427166	23	40	19.30	0.2	1	-1	26	18.5	-0.9	1	1933
2427167	23	40	3.50	1.2	3	-1	44	52.6	0.2	4	1933
2427171	23	42	14.67	0.3	2	-2	33	30.8	-0.1	2	1933
2427175	23	49	5.60	1.1	4	-2	41	44.0	0.2	5	1933
2427176	23	51	26.22	-0.3	3	-2	37	52.5	0.3	5	1933
2427178	23	56	47.82	0.9	2	-2	23	33.8	0.6	2	1933
2427182						-1	30	43.6	0.1	3	1933
2427183	0	13	35.35	-0.3	4	-1	12	53.9	-0.2	4	1933
2427183	0	13	35.31	-1.0	2						1933
2427189	0	38	56.79	0.2	3	1	7	46.9	0.4	5	1933
2427190	0	43	38.67	-0.3	5	1	36	17.3	0.1	5	1933
2427191	0	48	28.11	-0.3	2	2	6	5.9	0.0	3	1933
2427196	1	14	25.91	0.8	1	4	52	54.8	0.8	1	1933
2427205	2	9	10.77	-1.3	2	10	51	42.7	1.0	2	1933
2427211	2	52	19.77	-0.7	1	15	13	33.3	0.7	2	1933
2427216	3	32	57.61	0.1	1	18	46	26.5	-0.2	1	1933
2427227						24	25	10.1	-0.3	3	1933
2427228	5	22	52.78	-1.5	2						1933
2427232	5	59	11.47	-1.8	1	25	19	10.5	0.1	2	1933
2427237	6	41	15.43	-0.5	4	25	9	14.2	0.2	4	1933
2427246	7	44	26.28	-0.9	4	22	53	9.9	-0.3	6	1933
2427252	8	16	42.77	0.3	4	20	33	26.0	-0.2	4	1933
2427260	8	46	35.09	-1.0	3	17	12	1.6	-0.7	4	1933
2427296	8	15	25.64	-1.1	1	17	0	25.3	1.4	1	1933
2427305	8	44	16.93	-0.6	2	17	50	8.1	0.0	2	1933
2427310	9	14	31.40	-0.8	5	16	50	6.2	0.5	5	1933
2427315	9	50	19.89	-0.4	5	14	39	46.6	-0.2	6	1933
2427320	10	27	39.06	0.1	3	11	33	18.9	-0.2	3	1933
2427324	10	56	47.54	-1.6	2	8	38	40.8	-1.0	2	1933
2427336	12	16	32.31	0.3	5	-0	46	10.4	0.2	5	1933

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2427340	12	40	50.78	-0.3	3	- 3	50	26.7	-0.1	3	1933
2427344	13	4	20.88	0.4	4	- 6	47	48.4	0.8	4	1933
2427349	13	32	51.57	0.2	4	-10	17	12.4	-0.6	4	1933
2427354	14	0	38.37	-0.6	2	-13	30	18.1	0.6	2	1933
2427357	14	17	0.34	-0.2	4	-15	17	13.7	0.4	4	1933
2427365	14	59	18.19	0.3	6	-19	23	44.3	0.3	6	1933
2427372	15	33	13.55	0.2	6	-22	2	55.3	-0.1	6	1933
2427377	15	53	23.68	-0.6	4	-23	14	39.6	0.2	4	1933
2427381	16	4	48.78	-0.8	2	-23	39	19.7	0.9	2	1933
2427386	16	9	5.64	0.7	2	-23	15	26.7	0.3	2	1933
2427405	15	7	33.17	-0.4	3	-14	56	21.9	-1.2	3	1933
2427409	15	13	11.79	1.8	2	-15	16	19.3	-0.9	2	1933
2427415	15	34	55.31	0.4	4	-17	4	12.7	-0.5	4	1933
2427420	15	59	58.42	0.0	5	-18	59	7.2	-0.3	6	1933
2427422	16	11	3.59	-1.6	1	-19	44	57.6	-1.0	1	1933
2427429	16	52	57.13	1.3	2	-22	7	45.0	-0.5	2	1933
2427435	17	31	31.73	0.7	2	-23	35	43.6	-0.8	1	1933
2427443	18	25	21.46	1.4	3						1934
2427447	18	53	3.30	-0.4	2						1934
2427463	20	46	9.51	0.0	1	-20	8	15.5	0.1	1	1934
2427468	21	21	17.49	0.5	4	-17	28	33.4	-0.9	4	1934
2427477	22	21	22.74	1.5	3	-11	16	36.6	-0.8	3	1934
2427483	22	55	1.67	0.2	1	- 6	41	17.3	-1.4	1	1934
2427489	23	16	34.35	1.4	2	- 2	49	25.9	0.3	2	1934
2427492	23	20	30.27	0.0	1	- 1	35	30.1	0.6	1	1934
2427512	22	32	15.04	-1.2	1						1934
2427519	22	33	41.00	-0.4	1						1934
2427559	1	44	40.24	-0.5	5	8	59	27.3	-0.1	5	1934
2427566	2	37	40.40	-1.5	3	14	40	19.2	-0.1	3	1934
2427578	4	22	3.94	-0.3	2	22	52	27.3	0.5	2	1934
2427580	4	39	50.64	-0.5	1	23	45	42.2	0.4	2	1934
2427588	5	46	14.73	-0.8	4	25	34	20.2	0.0	3	1934
2427591	6	8	12.19	-0.7	3	25	36	8.2	0.0	3	1934
2427597	6	46	3.54	-0.4	2	24	51	34.0	0.1	2	1934
2427602	7	10	48.95	-0.8	3	23	39	41.1	0.4	3	1934
2427605	7	22	27.41	0.8	2	22	47	23.5	-1.1	2	1934
2427610	7	36	3.64	-1.5	4	21	13	57.4	0.2	5	1934
2427615	7	41	53.02	-1.8	2	19	43	34.3	-0.7	2	1934
2427651	7	21	44.38	-0.6	2	20	24	34.2	0.2	2	1934
2427657	7	54	43.64	-0.5	2	20	36	43.4	0.2	2	1934
2427663	8	38	32.19	-0.2	3	19	26	37.9	-0.6	3	1934
2427667	9	10	40.29	-1.4	3						1934
2427670	9	34	55.46	-0.2	2	16	8	46.1	0.2	2	1934
2427681	10	57	17.59	1.1	3	8	20	47.5	0.6	3	1934
2427687	11	36	41.50	0.5	4	3	39	39.9	0.6	4	1934
2427692	12	7	2.65	-0.3	2	- 0	12	10.4	0.3	2	1934
2427697	12	35	37.13	0.2	2	- 3	55	55.7	-0.3	2	1934
2427705	13	18	25.47	0.9	3	- 9	27	42.7	0.1	3	1934
2427711	13	48	24.52	0.4	2	-13	8	23.8	-0.7	2	1934
2427715	14	7	12.73	0.0	2	-15	18	29.4	-0.7	2	1934
2427721	14	32	44.72	0.4	5	-18	1	10.6	0.1	5	1934
2427725	14	46	54.87	0.6	2	-19	21	53.7	-0.2	2	1934
2427728	14	55	10.37	0.5	3	-20	3	21.0	-0.8	3	1934
2427734	15	2	5.48	-1.5	3	-20	18	5.0	0.3	2	1934
2427737	14	58	53.09	-0.6	1	-19	39	13.7	-0.7	1	1934

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2427751	14	7	48.71	-2.0	2	-11	20	0.0	-0.6	2	1934
2427758	14	12	5.48	0.3	4	-10	47	15.4	-0.2	4	1934
2427762	14	25	53.98	-0.4	3	-11	59	58.7	-0.6	3	1934
2427768	14	54	51.37	0.7	4	-14	42	52.6	-0.7	4	1934
2427771	15	11	28.50	-0.5	3	-16	11	51.0	-0.2	3	1934
2427777	15	47	9.45	-0.3	6	-19	3	5.1	-1.0	6	1934
2427780	16	5	52.01	0.1	2	-20	20	24.7	-0.2	2	1934
2427784	16	31	30.15	-0.1	5	-21	51	23.1	0.1	5	1934
2427792	17	24	44.47	-0.4	3	-24	2	52.0	0.5	3	1934
2427814	19	59	38.53	0.3	1	-22	45	50.9	0.6	1	1935
2427821	20	48	31.09	0.5	2	-19	47	33.7	-1.1	2	1935
2427826	21	21	21.48	0.0	3	-16	57	51.1	-0.9	3	1935
2427834	22	4	14.31	0.1	7	-11	50	2.9	-0.7	7	1935
2427838	22	16	46.21	-0.6	2	-9	34	23.7	-1.1	2	1935
2427842	22	19	56.10	1.7	1	-8	4	39.9	0.4	1	1935
2427861	21	23	12.96	0.9	3	-12	45	54.1	-0.1	3	1935
2427870	21	32	8.14	-0.2	4	-14	8	48.3	-0.4	4	1935
2427874	21	44	19.14	0.2	2	-13	56	51.6	0.1	2	1935
2427878	21	59	45.42	0.1	4	-13	18	1.9	0.3	4	1935
2427881	22	12	56.33	0.2	1	-12	32	33.4	0.1	1	1935
2427891	23	3	41.28	1.1	3	-8	29	31.7	-0.6	3	1935
2427898	23	43	48.52	0.8	3	-4	24	13.9	-0.2	3	1935
2427902	0	8	16.67	0.0	4	-1	39	18.5	0.0	4	1935
2427907	0	40	37.96	-0.3	2	2	9	24.4	0.8	2	1935
2427911	1	8	9.69	-0.9	3	5	27	41.2	-0.1	3	1935
2427923	2	40	59.92	-0.6	1	15	51	44.3	-0.4	1	1935
2427932	3	56	12.33	-1.1	4	22	6	2.1	-0.2	4	1935
2427938	4	42	23.84	0.0	5	24	30	28.3	-0.3	5	1935
2427940	4	56	19.57	-1.9	3	24	58	56.5	1.2	2	1935
2427945	5	27	6.14	-1.2	2	25	32	7.9	-1.1	2	1935
2427951	5	55	15.76	0.6	2	25	13	36.2	0.1	2	1935
2427954	6	5	19.17	-0.2	2	24	46	15.0	0.3	2	1935
2427994	5	49	2.35	-0.1	2	19	55	39.3	-0.1	3	1935
2427999	6	6	25.70	-0.2	2	20	59	20.4	-0.2	3	1935
2428004	6	32	41.80	-1.4	4	21	56	8.2	0.2	4	1935
2428009	7	7	3.87	-0.5	1	22	22	25.8	0.1	1	1935
2428014	7	47	34.52	-0.4	3	21	55	34.0	-0.3	3	1935
2428017	8	13	28.24	0.0	2	21	8	17.1	-0.7	2	1935
2428021	8	48	10.27	-2.8	1						1935
2428029	9	53	12.27	0.8	2	14	40	43.1	-1.1	2	1935
2428032						12	33	5.0	0.2	3	1935
2428037	10	49	33.68	0.0	3	8	49	53.5	0.5	3	1935
2428043	11	26	43.28	0.8	2	4	17	14.0	0.8	2	1935
2428047	11	49	31.22	-0.3	3	1	18	11.7	-0.7	3	1935
2428056	12	36	1.73	-0.6	3	-5	1	49.7	0.3	3	1935
2428059	12	50	8.72	0.2	1	-6	58	12.5	0.4	1	1935
2428065	13	16	3.02	-0.2	5	-10	29	26.2	-0.1	5	1935
2428069	13	31	9.15	0.3	3	-12	29	50.1	0.1	3	1935
2428072	13	40	55.37	0.6	2	-13	46	9.6	-0.9	2	1935
2428078	13	54	35.64	-1.0	5	-15	29	26.7	-0.9	5	1935
2428081	13	57	16.27	-0.6	2	-15	47	13.8	0.2	2	1935
2428101	13	5	55.78	-0.4	5	-5	59	25.0	-0.1	5	1935
2428106	13	10	3.18	0.7	2	-5	22	58.2	-0.3	2	1935
2428108	13	15	38.43	1.3	1	-5	44	44.9	0.7	1	1935
2428113	13	36	14.04	0.0	4	-7	40	31.1	-0.1	4	1935

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2428118	14	2	28.62	-0.4	5	-10	23	51.3	-0.2	5	1935
2428121	14	19	39.30	0.1	3	-12	9	49.1	-0.3	3	1935
2428126	14	49	37.34	0.2	5	-15	5	7.4	0.0	5	1935
2428130	15	14	24.55	1.0	1	-17	17	6.6	0.1	1	1935
2428135	15	46	10.65	0.4	2	-19	45	25.0	-1.0	2	1935
2428160	18	36	15.03	1.1	1	-25	14	6.9	0.1	1	1935
2428165	19	11	31.34	0.9	2	-24	36	58.3	0.3	2	1935
2428176	20	25	21.68	0.6	4	-21	1	28.3	-0.2	4	1936
2428182	20	58	9.01	0.3	2	-18	3	36.6	-1.0	2	1936
2428191	21	18	17.37	0.9	1	-14	9	43.4	0.0	1	1936
2428207	20	18	58.36	0.9	2	-16	15	58.7	0.5	2	1936
2428211	20	14	12.67	-0.6	2	-17	14	46.5	0.2	2	1936
2428219	20	27	7.91	-0.3	4	-18	11	9.3	1.2	4	1936
2428223	20	41	11.48	0.2	2	-18	6	2.6	0.9	2	1936
2428227	20	58	23.83	0.0	3	-17	38	45.9	-0.1	3	1936
2428231	21	17	49.37	0.6	2	-16	49	38.2	0.6	2	1936
2428234	21	33	27.94	1.7	2	-15	58	43.4	0.1	2	1936
2428258	23	58	21.68	0.5	2	-2	23	45.3	-0.2	2	1936
2428275	2	2	50.98	-1.6	2	12	43	39.2	-0.7	1	1936
2428281	2	49	32.67	-1.0	2	17	39	18.7	0.1	2	1936
2428283	3	4	32.13	-1.5	2	19	2	55.2	-0.9	2	1936
2428289	3	45	36.76	-1.0	1	22	16	4.7	-1.4	1	1936
2428293	4	8	29.66	-1.9	2	23	35	17.5	-0.2	2	1936
2428295	4	18	17.36	-1.8	2	24	0	45.6	-0.3	2	1936
2428349	5	0	12.42	-0.5	1	20	6	47.3	1.2	1	1936
2428358	5	57	12.19	-0.8	3	22	41	8.7	2.4	3	1936
2428362	6	29	29.29	-1.0	2	23	19	32.6	0.3	2	1936
2428384	9	39	7.80	-0.2	3	15	47	0.8	0.4	3	1936
2428393	10	39	7.01	0.3	2						1936
2428399	11	13	14.66	0.9	2	5	10	53.7	1.1	2	1936
2428406	11	48	3.40	-0.8	1	0	21	23.8	-0.4	1	1936
2428416	12	28	18.27	-0.6	1	-5	38	46.4	2.5	1	1936
2428455	12	11	3.03	-1.1	2	0	14	45.2	0.5	2	1936
2428461	12	33	41.78	-0.7	1	-1	27	37.6	0.2	1	1936
2428463	12	43	45.69	0.2	3	-2	28	10.2	0.0	3	1936
2428470	13	23	33.92	-1.0	3	-6	49	7.1	0.3	3	1936
2428473	13	41	41.21	0.2	1	-8	49	58.8	-0.1	1	1936
2428525	19	20	55.31	1.5	1	-24	14	1.6	-2.4	1	1936
2428538	20	14	16.81	2.1	1	-19	46	33.1	-0.1	1	1937
2428582	20	28	3.56	-2.4	1	-19	57	51.3	0.4	1	1937
2428596	21	51	55.89	-0.3	3	-15	7	38.2	0.0	3	1937
2428599	22	10	55.43	0.7	1	-13	32	32.5	0.5	1	1937
2428610	23	23	14.49	0.4	1	-6	6	47.9	-0.9	1	1937
2428623	0	55	26.69	-0.1	3	5	25	30.1	-0.2	3	1937
2428631	1	53	27.67	-0.4	1	12	43	38.2	-1.2	1	1937
2428636	2	26	20.78	-0.7	1	16	30	8.7	0.2	1	1937
2428644	3	6	21.42	-1.1	2	20	22	55.4	0.3	2	1937
2428689	3	13	56.51	-1.9	3	14	7	25.7	-1.4	3	1937
2428693	3	28	15.99	-1.2	2	15	20	1.6	-1.7	2	1937
2428697	3	46	20.35	-0.3	1	16	50	51.2	-0.3	1	1937
2428708	4	55	37.19	-0.6	3	21	31	33.1	0.2	3	1937
2428714	5	45	31.37	-1.3	1	23	28	36.1	-0.5	1	1937
2428718	6	22	22.96	-1.2	1	24	6	31.8	0.5	1	1937
2428739	9	22	42.78	-1.5	1	16	57	32.1	0.2	1	1937
2428743	9	49	7.00	-1.1	1	14	25	8.7	-0.4	2	1937

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2428750	10	29	24.78	0.6	2	9	47	12.1	0.2	2	1937
2428760	11	15	2.04	1.0	1	3	25	4.3	0.5	1	1937
2428777	11	52	25.74	-1.2	1	- 3	32	4.5	-1.4	1	1937
2428802	11	7	14.60	-1.1	1	5	46	46.9	2.0	1	1937
2428819	12	28	2.62	-0.5	2	- 0	57	42.3	0.5	2	1937
2428822	12	46	49.46	-0.8	2	- 3	7	25.0	-1.3	1	1937
2428827	13	18	11.86	-0.1	1	- 6	46	49.7	-0.1	1	1937
2428832	13	49	22.72	-0.3	1	-10	19	54.7	0.1	1	1937
2428842	14	51	30.11	0.2	1	-16	41	2.5	0.8	1	1937
2428847	15	22	50.26	0.6	3	-19	21	33.7	-0.7	3	1937
2428856	16	20	16.37	-1.2	1	-23	8	26.0	-0.2	1	1937
2428868	17	38	2.20	-1.4	1	-25	41	58.7	2.4	1	1937
2428871	17	56	56.88	0.1	1	-25	49	54.0	-1.0	1	1937
2428878	18	37	13.62	-0.3	2	-25	18	25.1	-1.1	2	1937

ASTRONOMICAL DATA IN MACHINE READABLE FORM

This card is prepared under Order 123, 22 May 1970, in accordance with the 1970 standard change

to the format of the astronomical data available in machine-readable form at the U.S. Naval Observatory.

This card is prepared from data on punched cards or magnetic tape, and is available to requests from

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